

MEASUREMENT OF UNDERWATER AMBIENT NOISE USING NAVAL SENSORS

Jonathan Carter, Atlas Elektronik UK

Characterisation of underwater ambient noise across a broad frequency range and including spatial and temporal variations is of high interest to the underwater community. Whilst very few commercial platforms are equipped with acoustic sensing systems, some naval platforms are equipped with high capability acoustic sensors in order to 'do their day job'. Whilst it is unrealistic to dedicate naval assets with such advanced underwater sensing equipment to ambient noise measurement and it is unlikely that the full military capability could be revealed, it may be feasible to employ some of the data captured during routine operations to advance the understanding of underwater ambient noise and help improve predictive capabilities. This paper provides an overview of the ambient noise measurement capability potentially available and draws upon some example data previously collected.