

The background of the slide is a light gray with an abstract geometric pattern. It features a network of thin gray lines connecting various points, some of which are solid black dots. Scattered throughout the background are numerous triangles of different sizes and orientations, some outlined in gray and others in a lighter shade. The overall aesthetic is technical and modern.

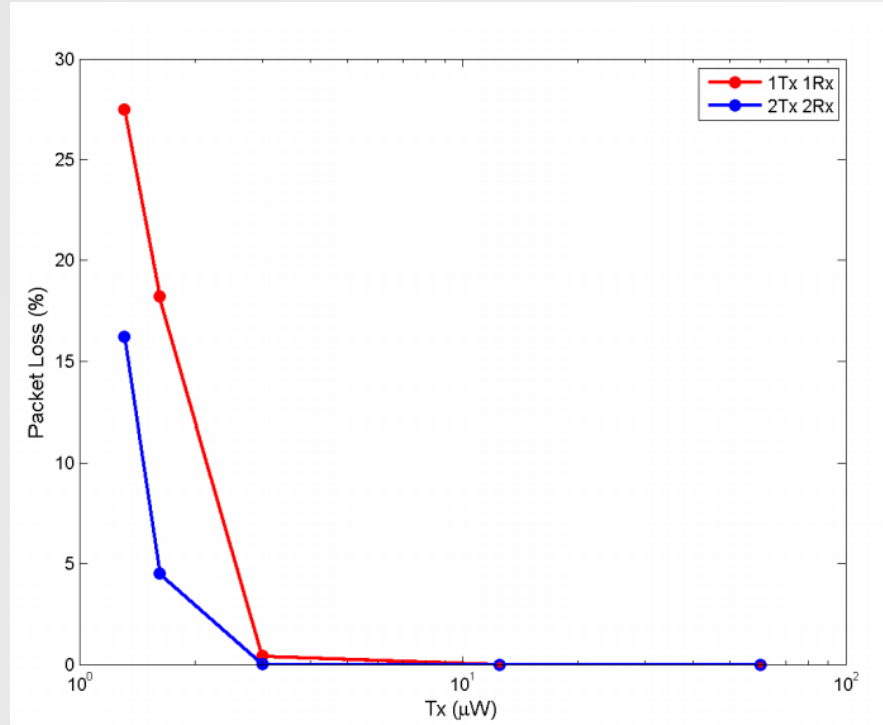
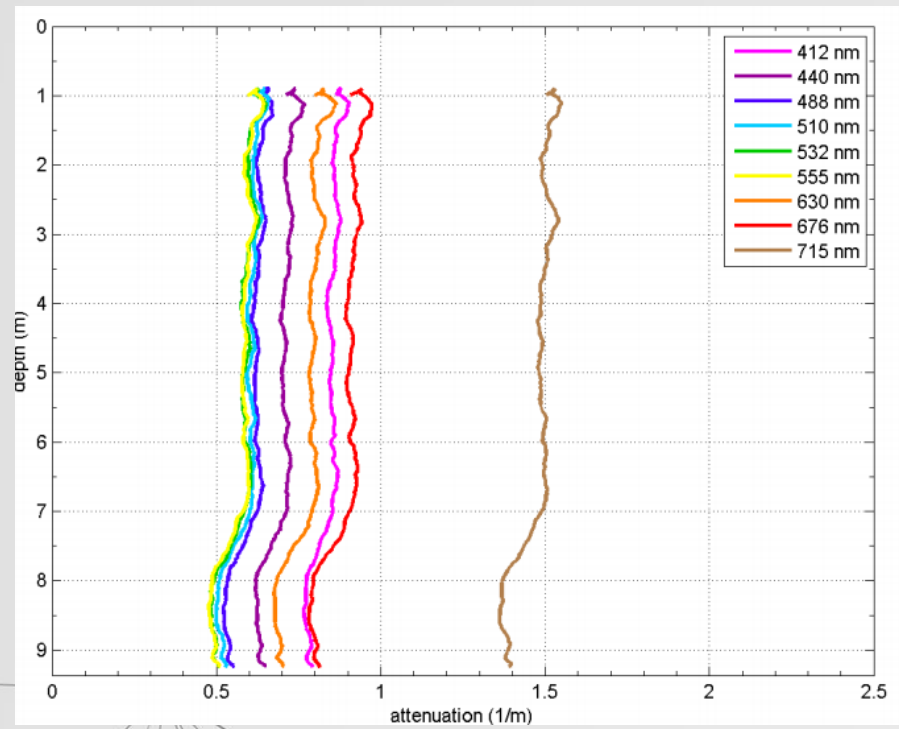
Laser Based UC Experiments in the Baltic Sea

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Abstract

Abstract—While **underwater acoustic communication** offers a wide range of applications for command and control links, it is restricted in **data rate**. When transferring huge amounts of information in underwater networks, e.g. between surface and underwater vehicles or other platforms, the additional use of optical communication techniques can be advantageous. Underwater optical communication is studied at WTD 71 on the basis of a laser communication system using a **robust two channel** approach with orthogonal polarized laser beams. After a first experiment in a harbor basin 2016, a sea trial was performed October 2017 in the Baltic Sea to analyze system performance and channel characteristics in more detail.



Clear Limitation

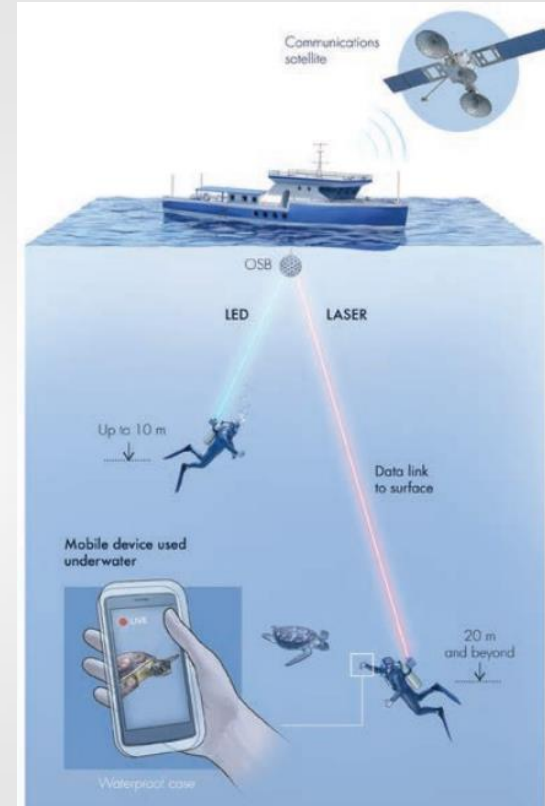
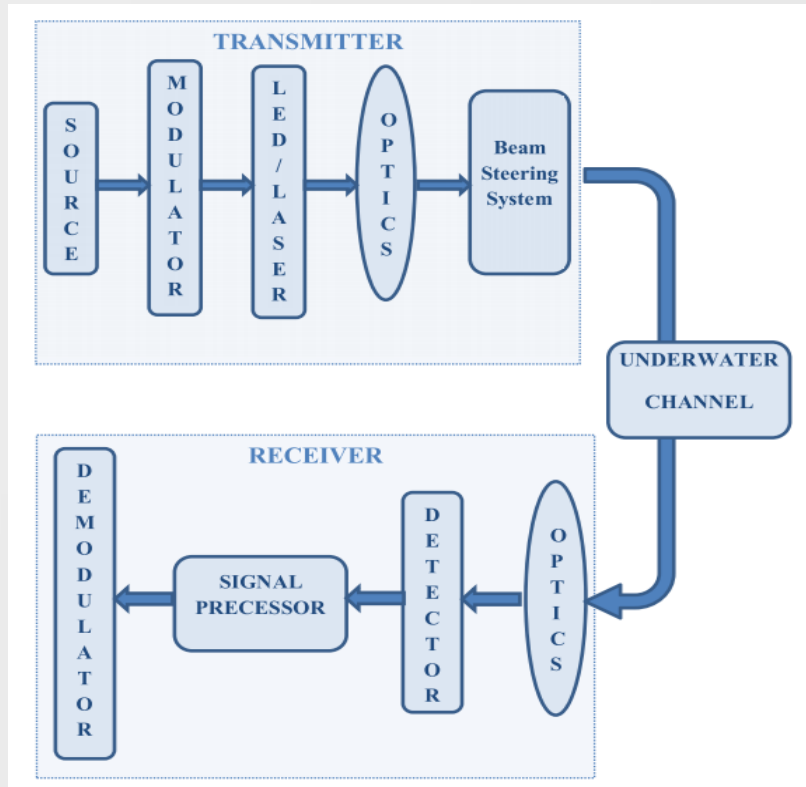
1. Distance

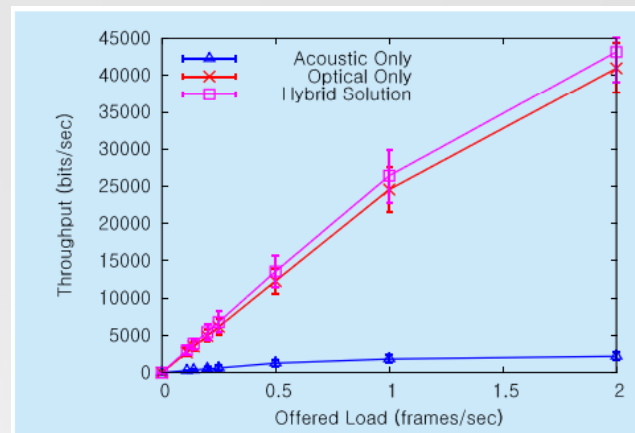
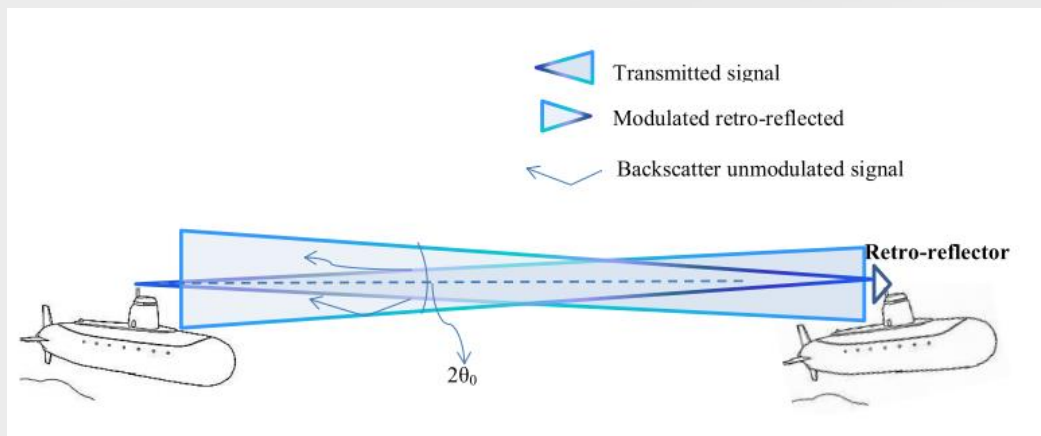
2. Cost

3. Robust

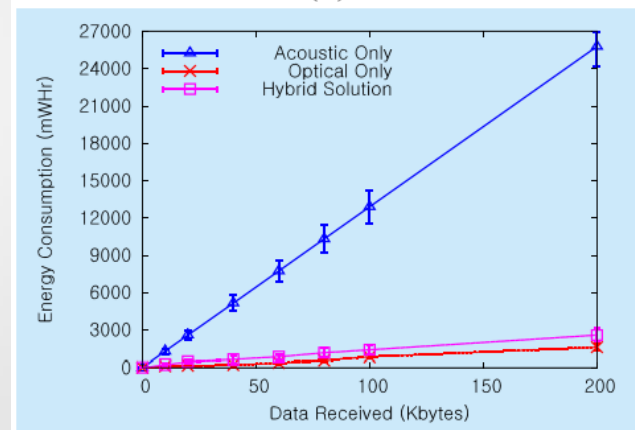


LASER ? LED?





(a)



(b)



THANKS