

KLEIN MARINE SYSTEMS

2021 SIDE SCAN SONAR TRAINING



THE DIFFERENCE IS IN THE IMAGE!!

Klein Marine Systems, the world leading manufacturer of high-quality side scan sonars, will be hosting a three (3) day side scan sonar training at the Seacoast Science Center in Rye Beach, NH. Practical sessions on UNH Gulf Challenger, based in Newcastle, NH.

Participants will develop a thorough understanding of sonar image analysis as well as obtain hands-on experience with single beam sonars such as the dual-frequency Klein 4900 and the latest in Side Scan Sonar Technology—the MA-X View 600 featuring the Klein BLUE Technology

Dates: 2021 dates TBD

Who should attend:

Hydrographers, First Responders, Police and Fire Fighters, Marine Construction Surveyors, UXO SAR & Salvage Operators, Geologist and Habitat Mapping, Specialists and Archeologists. The training will be held in English.

Training Topics

Principles of underwater acoustics (Sonar Record Analysis, Targets & Shadows, reflectivity of underwater materials, detailed target and shadow analysis, targets in the Water Column Under the Towfish) **Noise and Interference** (Surface Return, Acoustic Noise, Electronic Noise, Refraction and Biological Noise) **Anomalies** (Second Sweep Returns, Cross Talk, Multi-Path, Ringing, Hyperbolas and Flaring) **General Sonar Imagery** (Shipwrecks, Hazardous Drums, Aircrafts, Automobiles, Fishing Gear, Marine Structures, Debris Fields) **Navigation** (Layback and Target Positioning, Search Patterns, Range/Overlap, Shallow Water Operations, Small Target Search, Crime Scene/Accident Mapping, Artificial Reef Surveys, Drowning Victims, Operating Sonar & MAG Simultaneously, Deep Tows)

Training Costs:

\$800 USD per participant

\$700 USD for Law Enforcement, Military and University students

* Price includes training materials, training certificate and lunch each day.

Training Space is Limited ~ Make sure you register early!

For reservations contact KleinSales@MIND-Technology.com or call Carol Morrissey at +1 (603) 893-6131 Ext. 272



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Real-time image of subsea structure. On the right the nadir window shows a tubed frame off the bottom.

MA-X View 600!!

