

# MARINE GEOPHYSICS

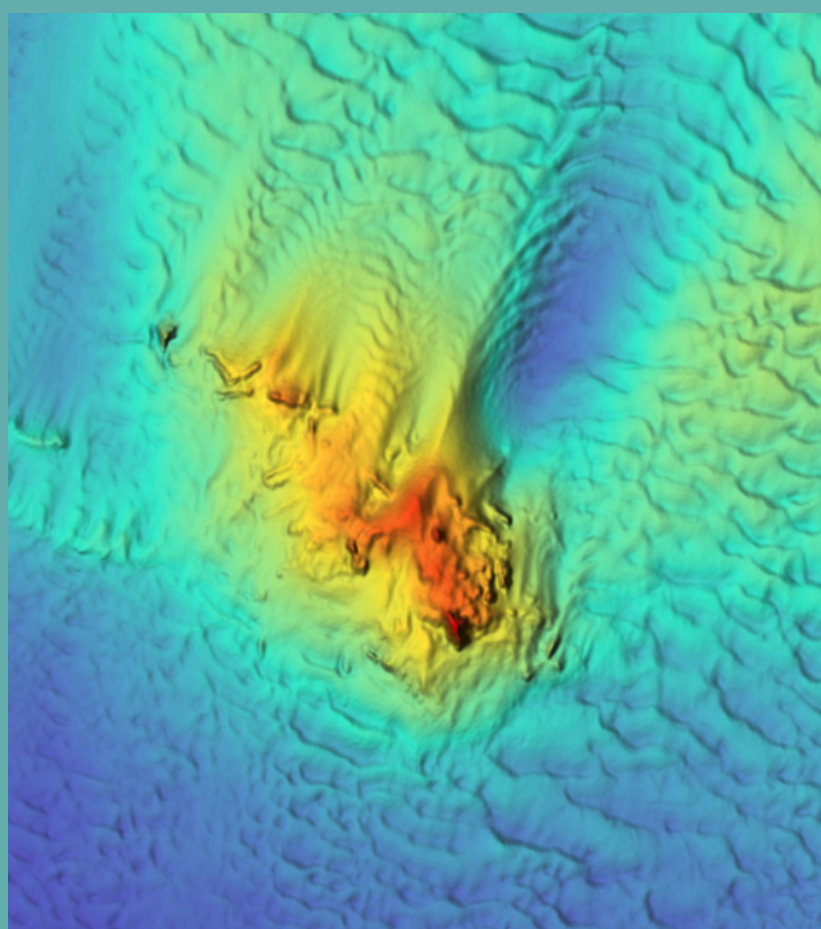
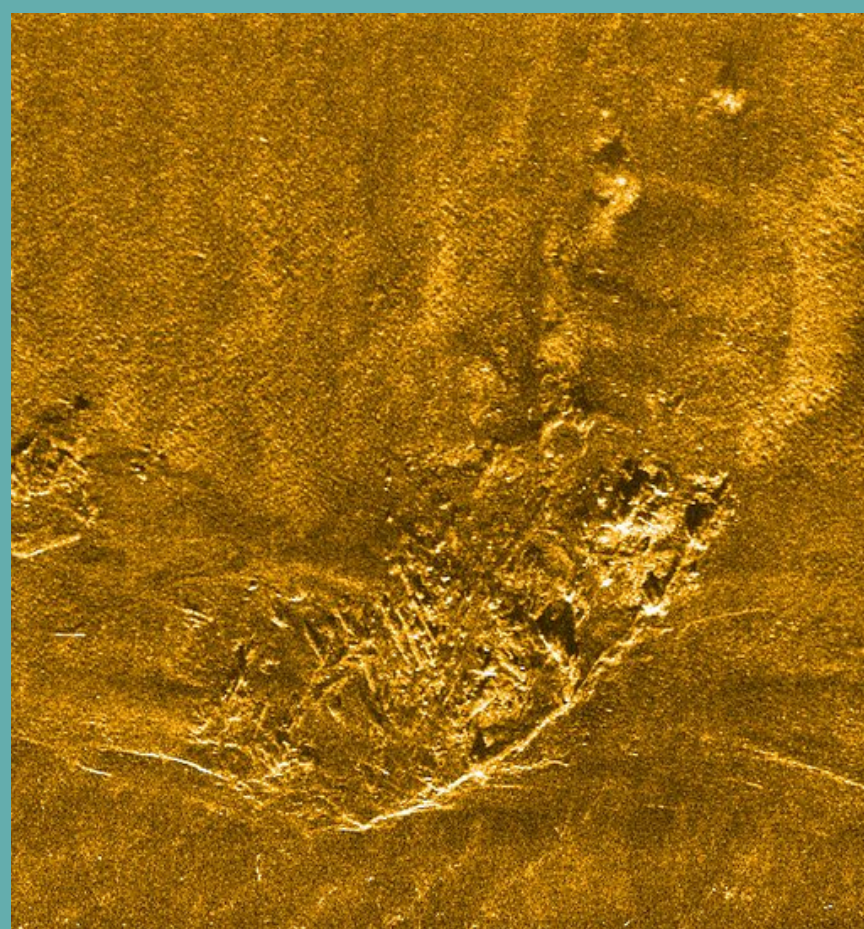
## HOW TO APPLY NEW DISCIPLINES FOR ARCHAEOLOGICAL PURPOSES

Underwater archaeological resources are irreplaceable, and it is essential to preserve or at least record the artefacts before they get lost forever. For this reason, high-resolution marine geophysical tools offer great potential and accuracy for collecting, processing, monitoring, and interpreting underwater sites on a river, lake, or seabed.

### HOW THESE NEW TECHNOLOGIES ARE USED ACROSS THE DISCIPLINE ON OUR UNDERSTANDING OF ARCHAEOLOGY?

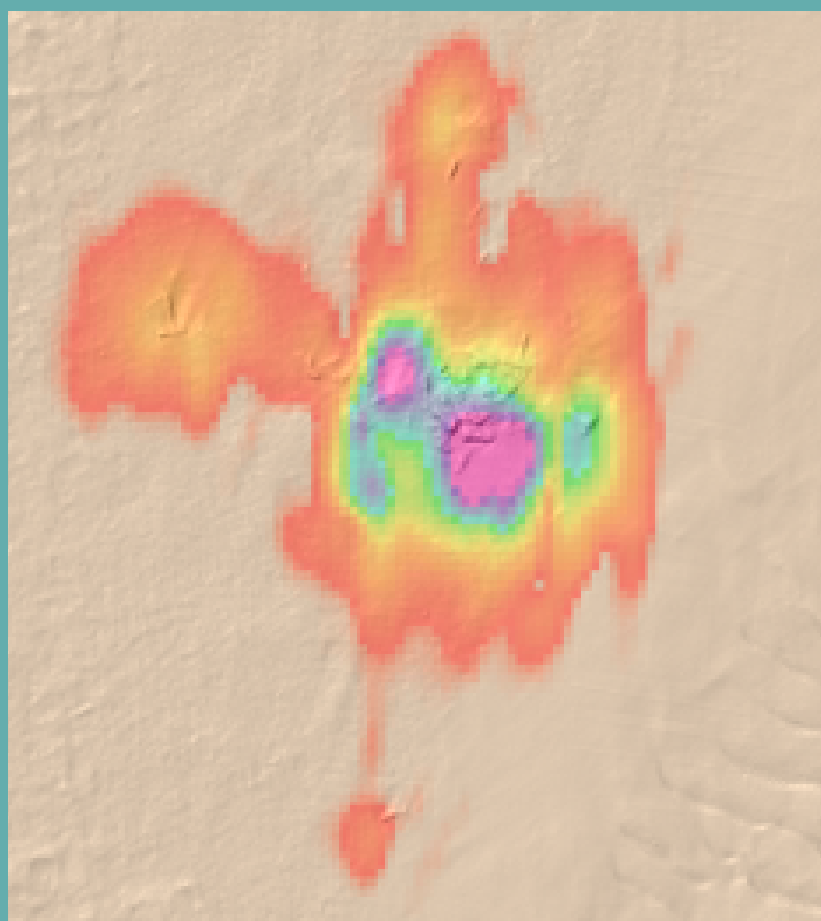
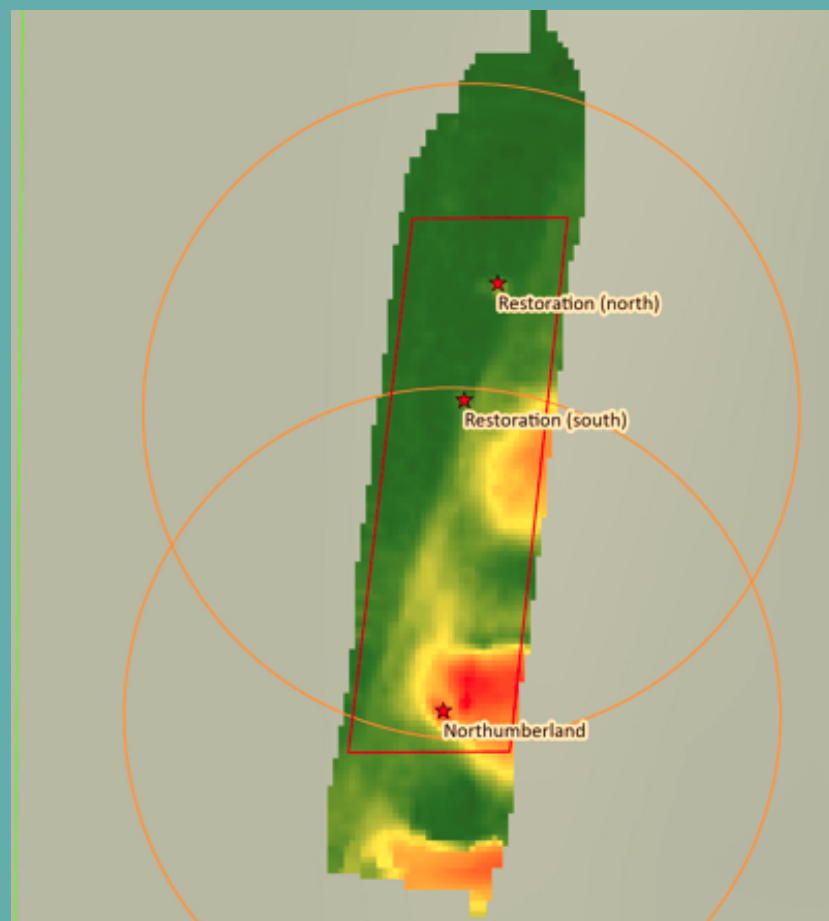
Side-scan  
Sonar

Multibeam



Sub-bottom  
profiler

Magnetometer



### OBJECTIVES

- Identify the presence of material culture, such as shipwrecks, wreck remains, sediments and anthropogenic debris.
- Determine the necessity of new technologies to manage the maritime environment.

### METHODOLOGY

- Present and analyse data from different survey operations.
- Compare the different methods of data acquisition.

### CONCLUSION

- Marine geophysics are efficient techniques which collect data of the highest quality and the most significant detail.
- This range of techniques reveals underwater archaeological resources that would be hardly recognisable on the seafloor.
- Improving our understanding of new technologies will boost the management of the marine cultural resource.