## Plan Overview

A Data Management Plan created using DMPTool-Stage

Title: Collaborative research: The role of ripple migration in surf zone sediment transport and sandbar migration

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## Collaborative research: The role of ripple migration in surf zone sediment transport and sandbar migration

Data will consist of hydrodynamic, ripple migration measurements and bathymetric maps.

- Hydrodynamic data will be collected using Nortek ADVs
- Ripple Migration measurements will be collected with Blue-robotics Ping single beam echo-sounders.
- Bathymetry will be collected via combinations of PingDSP 3dss and/or Blue-robotics Ping single beam echosounder data and PPK GPS and motion sensor data.
- Raw data & metadata from ADV sensors will be stored as both binary and documented txt files as produced by the manufacturer software
- Blue-robotics Ping single beam echo-sounders will be converted to hdf5 data types with associated metadata
- PPK GPS data will stored in open source RINEX data types and Blue-robotics Ping single beam echosounders will be converted to hdf5 data types with associated metadata.
- Processed Bathymetry data & metadata will be stored in geotiff files

At the time of collection data will be saved to local severs and cloud based storage (e.g. Google Drive). Within two years processed data will be uploaded to the WHOAS (Open Access Server of the Woods Hole Scientific Community) with DOIs for longer term access by the public.

Data access and sharing will comply with any NSF\_EAR guidelines and policies

The data collected will not need copyright or license protection.

Final processed data will be publicly available via the WHOAS (<u>https://darchive.mblwhoilibrary.org/</u>) website. Processing codes will be available on request from the PIs.

Results from the data analysis documentation of engineering designs will be reported in a scientific journal and/or technical reports.

Final processed data will be archived via the WHOAS (https://darchive.mblwhoilibrary.org/) system.