Wave and current measurements in support of coastal management plans in False Bay

A Data Management Plan created using UCT DMP

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Template: UCT Student Generic DMP

Project abstract:

This project is meant to support an ongoing research program on False Bay, dedicated to the design of future water lines for coastal management and planning. The first component is the collation, organization and reprocessing of existing wave and current data collected in False Bay since 2010. This involves identifying open-source software that can process data from a Teledyne RDI Sentinel ADCP. The second component is to compare the existing data to the known circulation features and published modelling studies. The goal is to create a re-usable pipeline which processes and allows for the visualization of raw ADCP data, which will then be used to further investigate the circulation in False Bay

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Wave and current measurements in support of coastal management plans in False Bay - Student Outline DMP

1. General guidelines

PURPOSE OF THIS TEMPLATE - The purpose of the Outline DMP is to indicate your initial plans for how your data will be collected, shared and stored, and to give you a chance to think about these data-focused aspects of the research process. As your begin doing your research, your data process may change, and it is perfectly acceptable to change your data management plan to accommodate the changes in your research process. Indicate below that you understand the purpose of completing this Outline DMP template.

 I understand the Outline DMP template is a projection of my anticipated data management planning requirements and should be updated as my project develops.

2. Authors and supervisors

PROJECT NAME - Replicate the title of your project, dissertation or thesis exactly as it appears in your proposal document.

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PERSONAL DETAILS - Indicate the name(s) and student number(s) of the student(s) who will be involved in this project, dissertation or thesis.

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SUPERVISOR(S) DETAILS - Indicate who will supervise this project, dissertation or thesis. If you do not yet have a supervisor, leave this section blank.

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3. Data Collection/Generation

COLLECTION OF ORIGINAL DATA - Indicate whether or not you intend to gather/produce original data for your study, and provide a brief description of the kind of data you think you will collect. If you are unsure at this time, indicate what you think you are most likely to collect. If you are not intending to gather or collect your own data, declare that here.

I do not intend to collect original data.

USE OF EXISTING DATA - Indicate if you intend to re-use existing data, either from online searches or from datasets provided by your supervisor, lab, or funder. If you are not intending to re-use existing data, declare that here.

• I intend to reuse existing data in my study (described below).

The data exists in an archive and has not been processed yet.

DATA SHARING - Indicate whether or not you are intending to publish your research data. If you are, indicate where you are intending to publish your data and under what licensing conditions, such as Creative Commons. If you are not intending to publish your data, provide reasons and reference the appropriate ethical considerations, commercial applications/patenting ambition, or data re-use agreements that prevent you from publishing your data.

. I intend to share my data (details below).

I intend to make the data public after my project is completed, if granted permission by the owner.

4. Data Storage

ANTICIPATED DATASET SIZE - Indicate the estimated size of your completed dataset, and indicate whether or not you will need to access additional data storage facilities. If such storage is not provided by your unit or department, you may need to factor in the cost of purchasing additional storage space.

20GB or less

DATA BACKUPS - Indicate how you plan to ensure your data is secure and retrievable in case of errors or hardware failure. Describe what procedures you will put in place to back-up copies of your data and where they will be stored.

· I intend to backup my data on my personal storage.

The data is held on a shared google drive folder by the owner. It is also stored on my personal computer and an external hard drive. The data also stored on OneDrive and is backed up automatically as changes are made.

5. Data Centre(s)/Repositories

DATA CENTRES/REPOSITORIES - Once your project, dissertation or thesis is complete, it is advisable to curate and archive your completed dataset with an established data centre or repository. Note that you should archive your data even if you are not intending to publish it. Check with your supervisor or funder if you are required to deposit your data in a specific repository, or declare that you will deposit the data in ZivaHub (see the Guidance section).

• At the end of my study, I will deposit my data on ZivaHub.

I intend to do so if given permission.

METADATA - Metadata is descriptive information that others will need to make sense of your dataset. Metadata includes things like study descriptions or abstracts, study instruments (sample collection schedules, codebooks for variables, survey instruments, etc.), subject codes, and keywords. Indicate what metadata will accompany your curated dataset.

The completed dataset and pipeline will include informative descriptions.

6. Budget

BUDGET - Indicate any costs specifically relating to the management and curation of your data, such as purchasing additional storage space, digitisation of physical media, data storage or curation charges, and data audits. Most student research will be able to make use of free options provided by UCT and will not have to budget for data costs.

• I do not anticipate any data costs as my data is less than 10GB, and I will be using my existing storage (e.g. an external harddrive) to curate my data.