CMM507 Research Project

Group 2 Meeting Summaries

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# FEB 11

Time & Location: 2.30pm to 3.30pm, SIWB Cafeteria  
Present: Alex, Georgios, Karen, Roshi, Stuart

Objectives:

1. Narrow down project’s scope of research
2. Divide research areas to each member for the week.

Notices:

1. With 4 votes from the poll on Slack, “Plastic Pollution” is the general topic.
2. A github repository has been set up to store project documents
3. We will adopt a central listing of all source links: to share resources and as the source for eventual bibliography element.

Decisions:

1. Current project scope: building a predictive model of plastic accumulation size in the ocean given the factors of: rate of pollution, rate of extraction, shipping lanes, currents and other factors

Actions:

All members to research their areas in the week

* sources, datasets and literature;
* collect and update slack with key updates on the go;
* prepare to present findings on 18 Feb to converge research.

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| Alex | Shipping lanes - location, timeseries and plastics in lanes |
| Georgios | Plastic islands - location, size and timeseries |
| Karen | Plastic sources – location, size and timeseries;  Evidence of existing scope research |
| Roshi | Reasons/motivations for research;  Evidence of existing scope research |
| Stuart | Ocean currents and other factors leading to plastic accumulation |

Discussion Notes:

1. Wildlife, types of plastic, other debris (incl. rubber), and under-surface plastics are removed from project scope but can be alluded to in the motivations for research and further research sections.
2. Larger plastics are easier to remove at surface, before it is disintegrated into microplastics.
3. Microplastics are harmful to plankton production (aquatic life), ingestion by marine animals, ingestion by humans of which effects are still largely unknown.
4. We are interested in where plastic accumulates and why (shipping, currents, location of deposits).
5. Timeseries information is important for model training.
6. We will have to consider interpolation and methods for relating distinct sources of non-overlapping data.
7. We may be interested in the impact of plastic-reduction campaigns (for later research/conclusion)
8. We don’t know if plastic accumulation will increase or decrease in time, but we are building a model to attempt to predict it given different test scenarios.
9. The project scope may still change/ be refined based on research found, especially if a model already exists.