

Meeting: 4**07/06/2021****Fourth Meeting****Agenda:**

- Where am I this week/Recap yesterdays meeting
- Project Plan for kelvin (appendix 1)
- Next week's goals
- How to keep motivated at home
- Any other feedback/business

Project Report

- Trufully not my best week, let my self get distracted with family matters. Remedieng this by going back home to refocus on me and my work.
- This week, continued work upon the literature review, further reading into different hurricane visualisation techniques.
- Started planning next phase.
 - o How am I going to go about creating the new visualisation?

Aims for next week

- Create table of visualisation techniques that have already been identified
- Draw out initial profiles from the information kelvin provided last meeting
- Extract hurricane larua data in to GIS to 'play with'
- Look at RMS's Exposure iq GIS

Appendix 1 (next page)

Project plan**07/06/2021****Phase 1: 18/05/21 – 08/06/21 90% complete****Literature review**

- 1.0.0 literature review
- 1.1.0 Hurricanes
 - 1.1.1 What are hurricanes
 - 1.1.2 Hurricane Laura (can be swapped for which ever hurricane is chosen)
 - 1.1.3 How are hurricanes modelled and predicted
 - 1.1.4 How are hurricanes mapped
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- 1.2.0 GIS
- 1.3.0 Uncertainty
 - 1.3.1 What is uncertainty.
 - 1.3.2 Why does uncertainty matter.
 - 1.3.3 Uncertainty in GIS
 - 1.3.4 Uncertainty in hurricanes.
 - 1.3.5 Uncertainty and visualization

Phase 2: applying visualization improvements starting 08/06/2021 – 14/07/2021**Create 2d hurricane map improvement**

- Further develop a table of techniques, there audience, benefits, scale.
- Draw out key components of potential users from the meeting (07/06/2021)
- Load NHC hurricane Laura data into initially into arc and apply appropriate visualisation styles
- Examine RMS visualisation methods and user profiles (21/06/2021)
- Update initial visualisation improvements to match better defined users and fit RMS portal
- Compare visualisation methods/techniques which fit these profiles
- Continually develop a method to visualizing the hurricane data

Create interactive 2d map improvements

- Reading upon interactive map usability and techniques
- apply techniques to current 2d version
- adding the element of time
 - main benefit of an interactive map is being able to view and interact with eh 4th dimension, time.

Phase 3: anonymous questionnaire 14/07/21 – 03/08/21

- create questionnaire to compare the newly create maps to previous NHC maps
- send questionnaire to industry partners, potentially to no exeperts as well
- once questionnaire results are received, the results can be compiled

Phase 4: results and write up 03/08/21 – 31/08/21 (final deadline)

- write up the findings of the project into a 10,000 dissertation
- continual first drafts of literature review, methods will be written as they are researched. But the final report will be written here
- report submitted to UCL and provided to RMS if they wish to have an in-depth read

