

# Meeting 2nd June

Harriet Notes	Meeting Comments
<p>Time Series Confidence Intervals</p> <ul style="list-style-type: none"> <li>- I couldn't figure out how to keep them positive in the fable() package without doing a log transform thing and for now have given up.</li> <li>- If you guys know plz tell me.</li> <li>- Discussed a bit with ursula last week but I have the data sets that depict uncertainty</li> </ul>	<ul style="list-style-type: none"> <li>- Should be able to set distribution, it is currently doing a normal dist, ask rob tomorrow               <ul style="list-style-type: none"> <li>- Can use a glm to do this and do a normal linear regression</li> </ul> </li> <li>- Bootstrap isn't how Di thought it would look, thought they would be smoother               <ul style="list-style-type: none"> <li>- Get a model that approximates the shape of the series</li> <li>- simulate from that model and generate a bunch of series</li> <li>- <math>y = b \cdot \text{day} + \text{hour} + \text{error (gist)}</math></li> <li>- Predict without bootstrapping from each series</li> <li>- Keep the original series estimate as a mean value</li> <li>- Try the log method?</li> </ul> </li> <li>- Basically remake the model</li> </ul>
<p>Made other plots</p> <ul style="list-style-type: none"> <li>- I made extra plot since I didn't have anything to do this week</li> <li>- Wow neat</li> </ul>	<ul style="list-style-type: none"> <li>- yup</li> </ul>
<p>Bigger Picture Thing</p> <ul style="list-style-type: none"> <li>- I think i generally need a bigger picture idea to work towards to keep me going or idk what im doing</li> <li>- A bigger goal that is larger than could be expected, but it means I have direction and somewhere to go with what I'm doing</li> <li>- I think I feel mostly apathetic towards the time series stuff</li> <li>- I wonder if I would feel better about the work if I shifted focus to either categorising and organising current time and spatial uncertainty visualisation methods and coming up with an organisation system OR if I shifted focus to spatial uncertainty as a first topic.</li> <li>- Like I just feel like previously I have been able to do work and come up with new issues as I work, but recently I do the task and then... nothing? Like each thing I do feels like a dead end and then I have nowhere to go after and it makes research feel very stilted.</li> <li>- Or maybe like things I can swap between?</li> </ul>	<p>Experiment: Bigger picture for this year</p> <ul style="list-style-type: none"> <li>- Simulate data with that has qualities that we want to test               <ul style="list-style-type: none"> <li>- Bimodal, positive, etc,</li> <li>- have to simulate + understand standard models</li> </ul> </li> <li>- Make plots that show uncertainty</li> <li>- Response is how well people are reading the uncertainty</li> </ul> <p>Can try temporal stuff</p> <ul style="list-style-type: none"> <li>- Best thing to do if we want to go in this direction is to read (package is visumap)</li> <li>- These plots are defined already</li> </ul> <p>Should try thinking and looking at the pros and cons of each type of plot.</p>