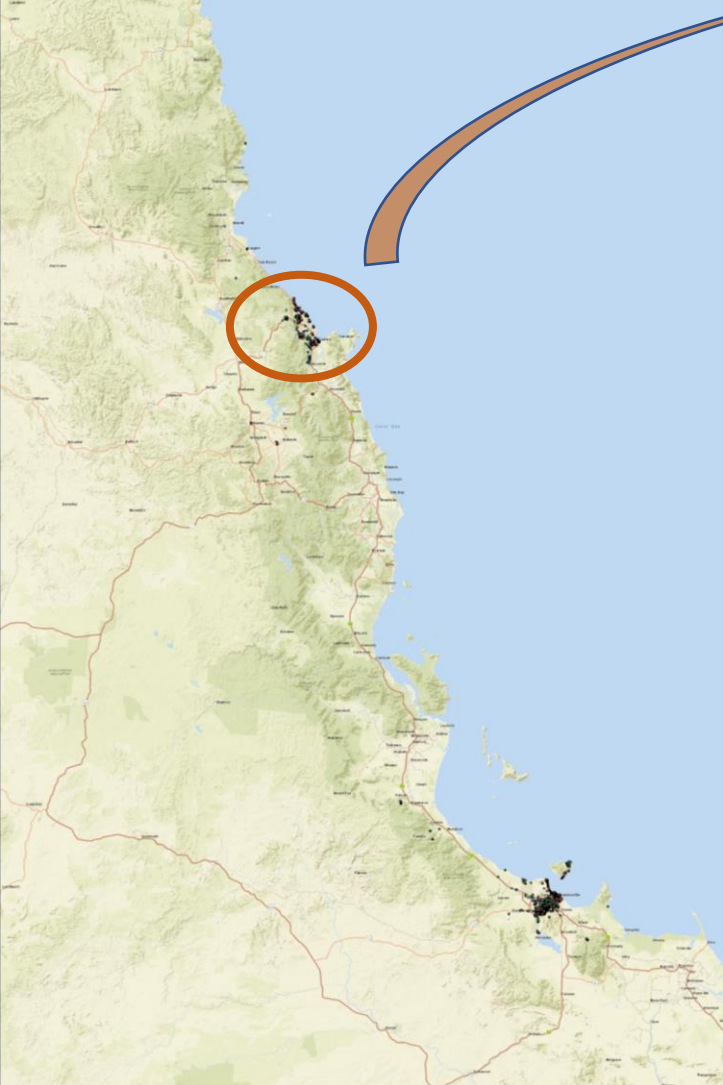# Is greener cleaner? Recording litter across Yorkeys Knob

Alternate title:

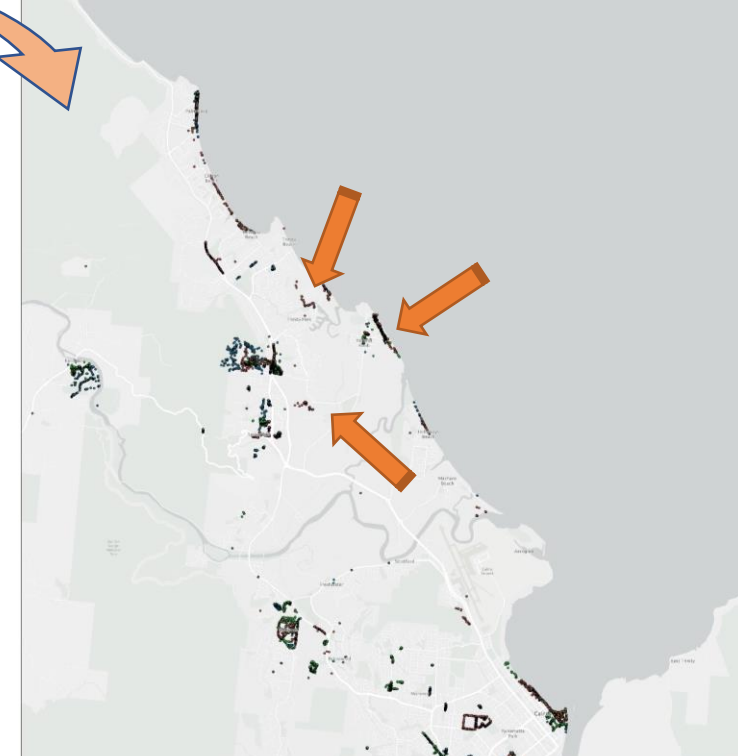*How I learnt to stop worrying and love ArcGIS.*

Data collection – using epicollect5

Data needed to be:

- Representative of a local area
- Sampled across multiple years
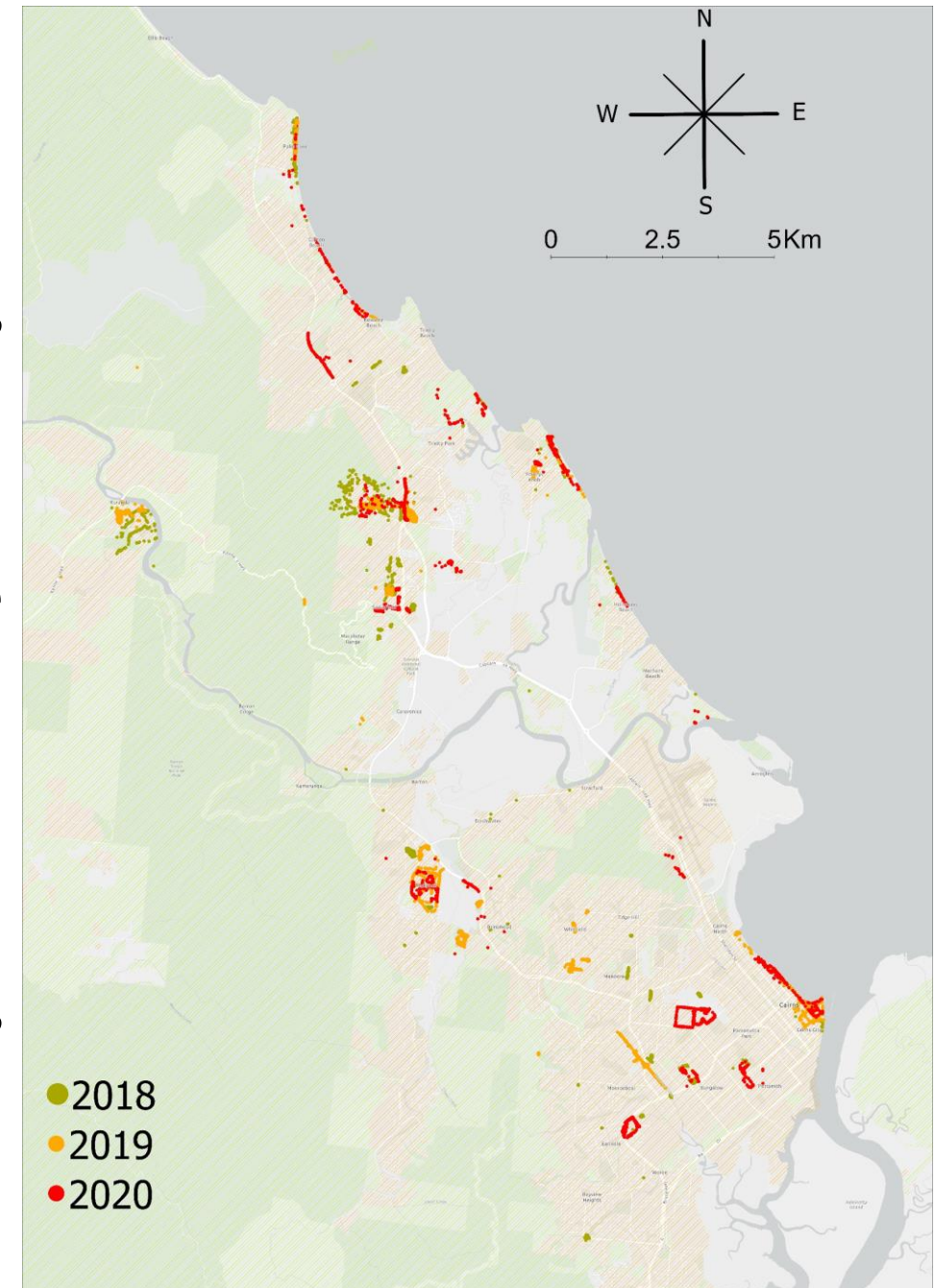- Cover both 'green' and 'brown' sites.

2020 was quite a unique year for data collection!

We sampled within **Cattana** wetlands, **Earl Hill**, and **Yorkey's Knob** beachfront
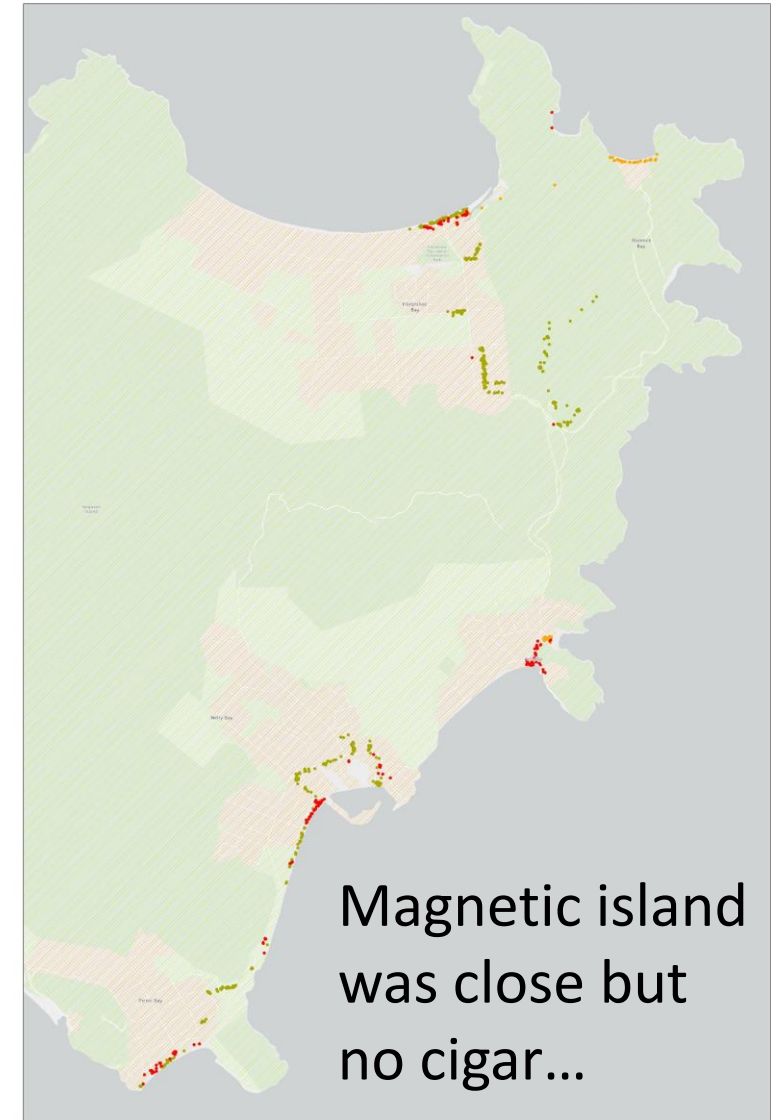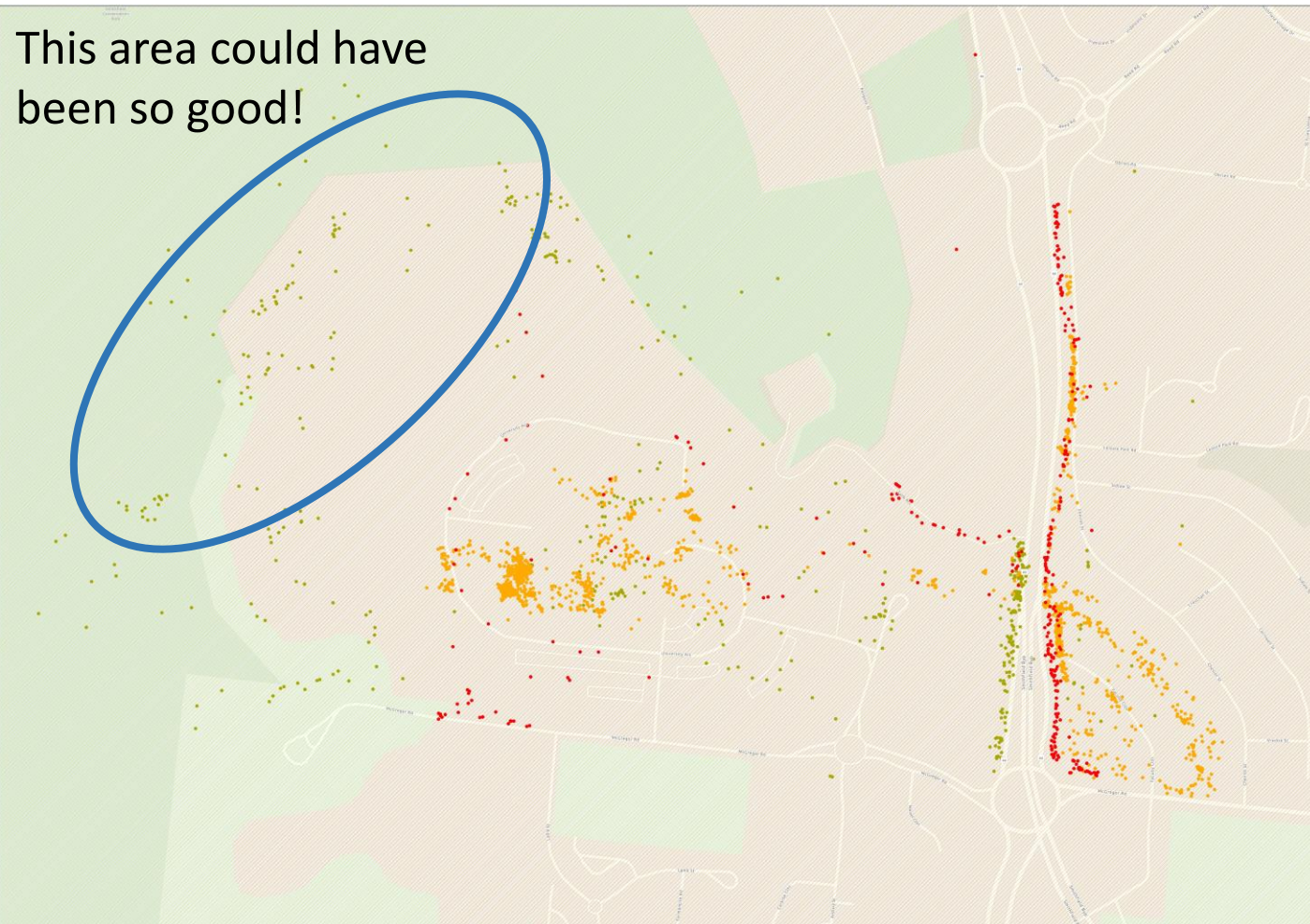
Developing the question

- Interested in measuring litter across 'green' and 'brown' sites.

- Needed sampled sites that straddle the green / brown boundary.

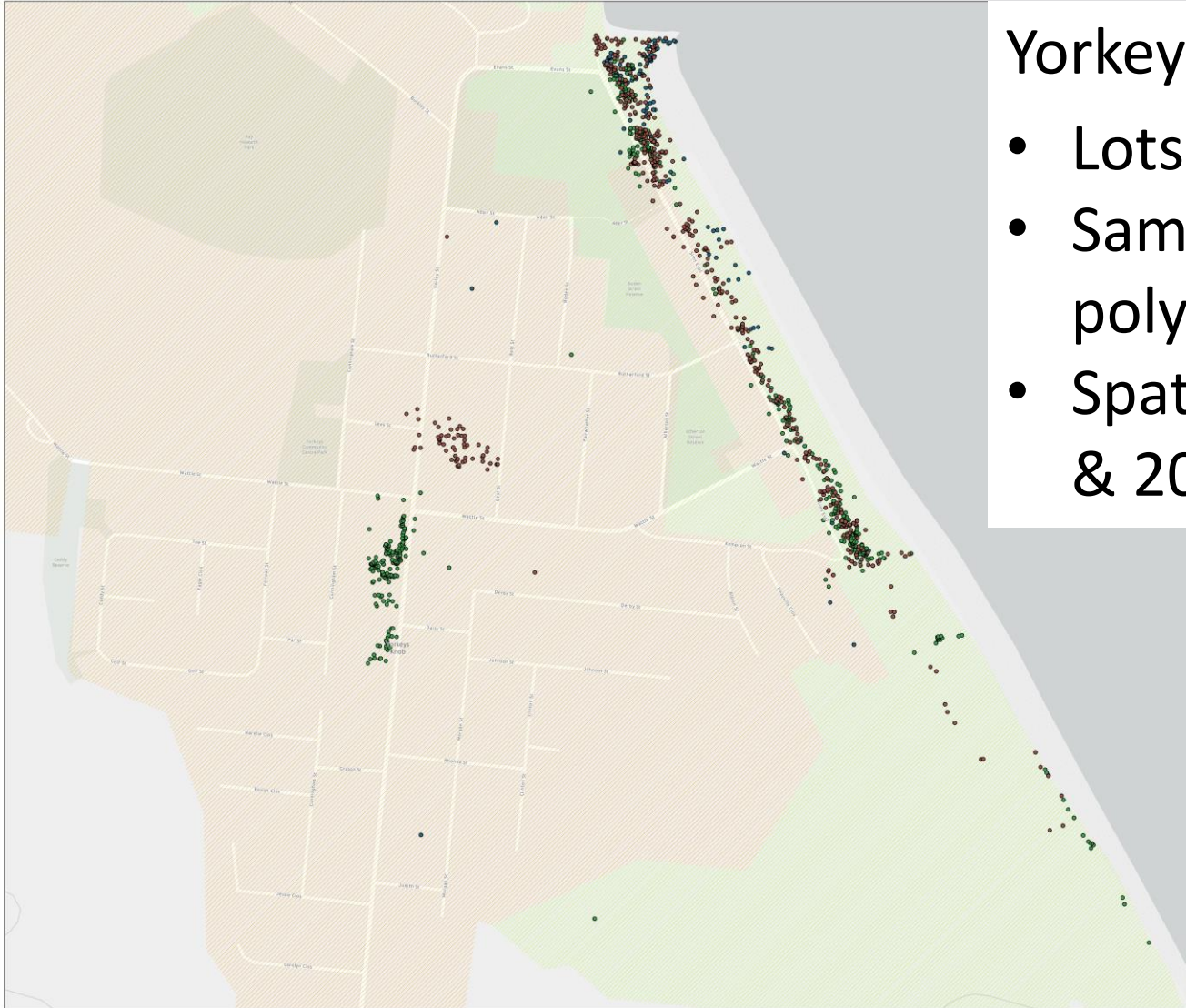- Qspatial land use polygons defined 'green' and 'brown' sites

Developing the question – which site?

Limited to sites with 'green' & 'brown' data across **multiple years**.

This area could have been so good!

Magnetic island was close but no cigar…

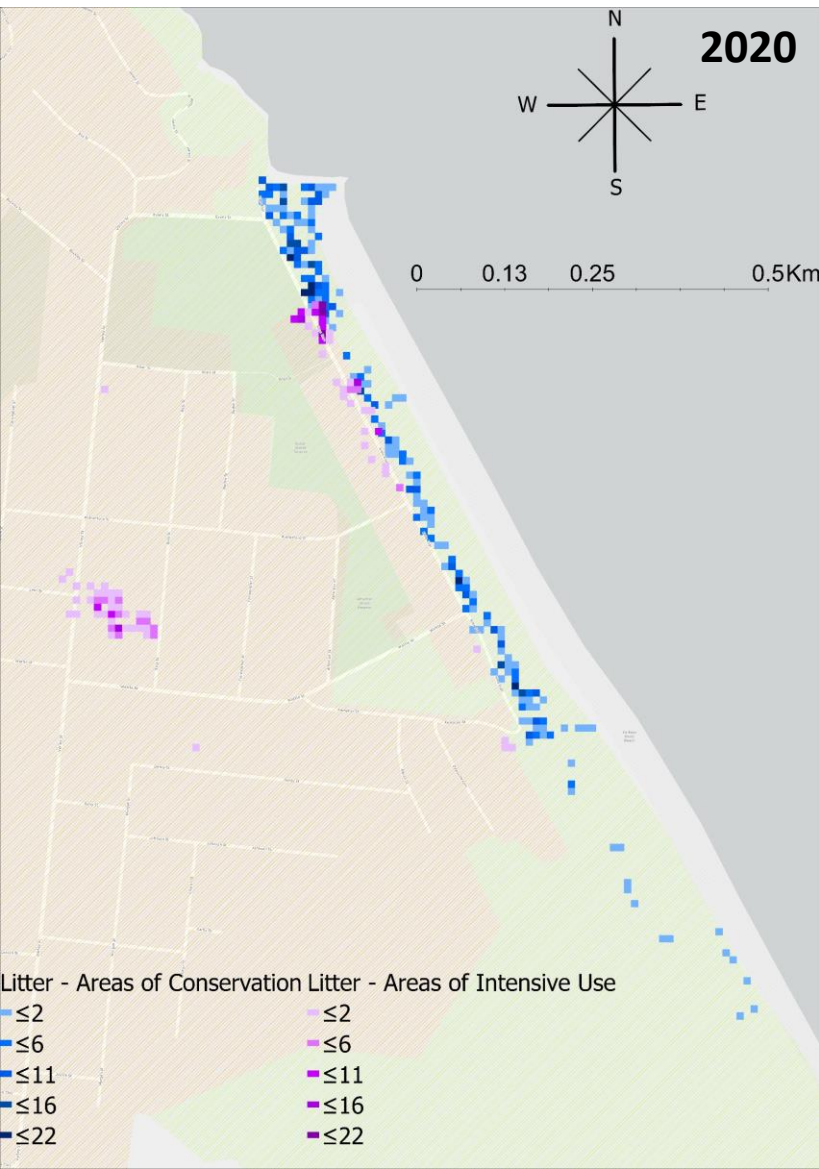# Developing the question – which site?

Yorkeys Knob ticked all the boxes:

- Lots of data!
- Samples taken across different land use polygons.
- Spatially comparable datasets from 2020 & 2019.

Finalised question:

"Do conservation areas have different litter profiles? – *Litter assemblages in Yorkeys Knob, 2019 and 2020*"

Data analysis – Keep It Simple Silly
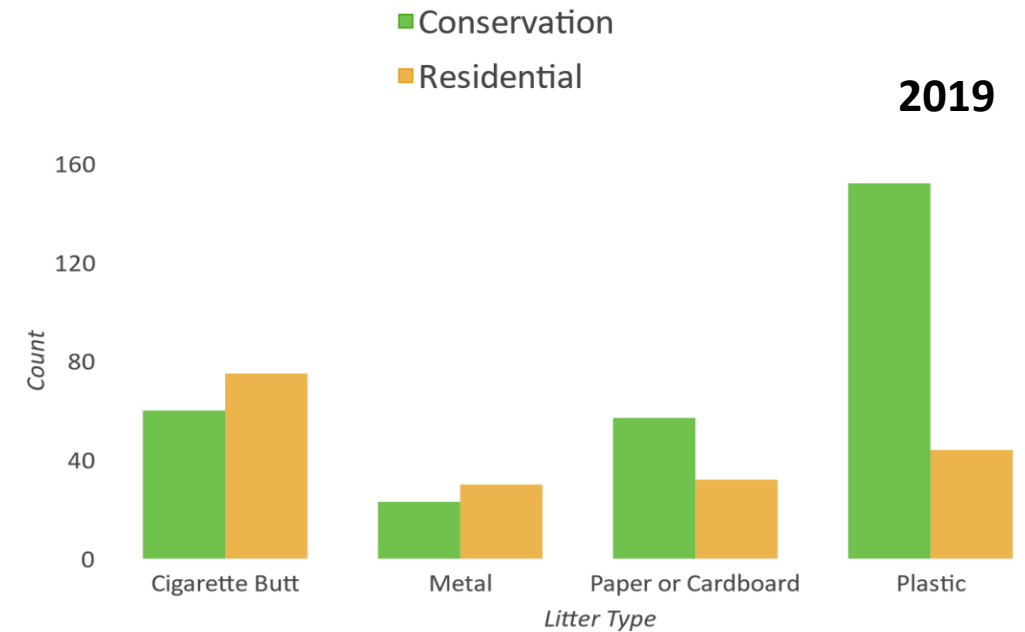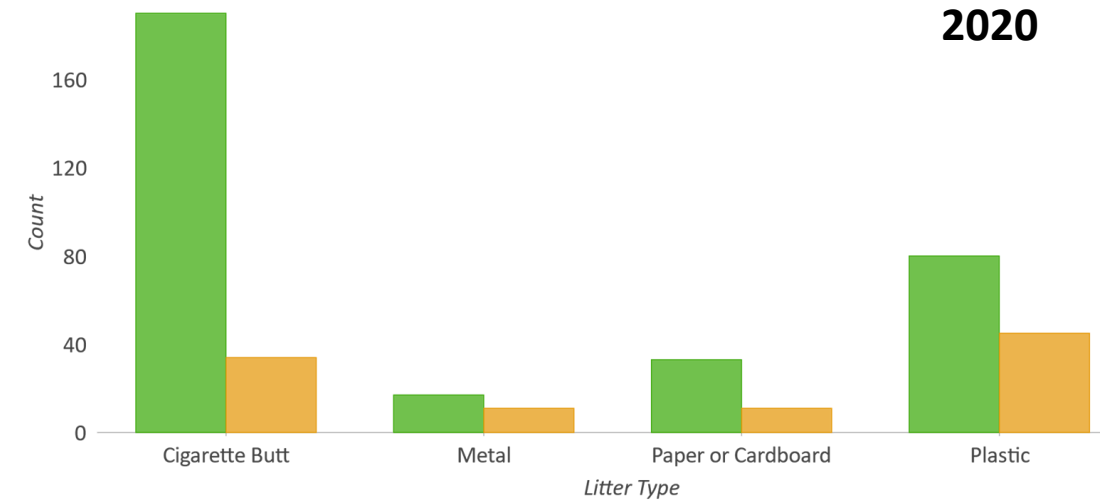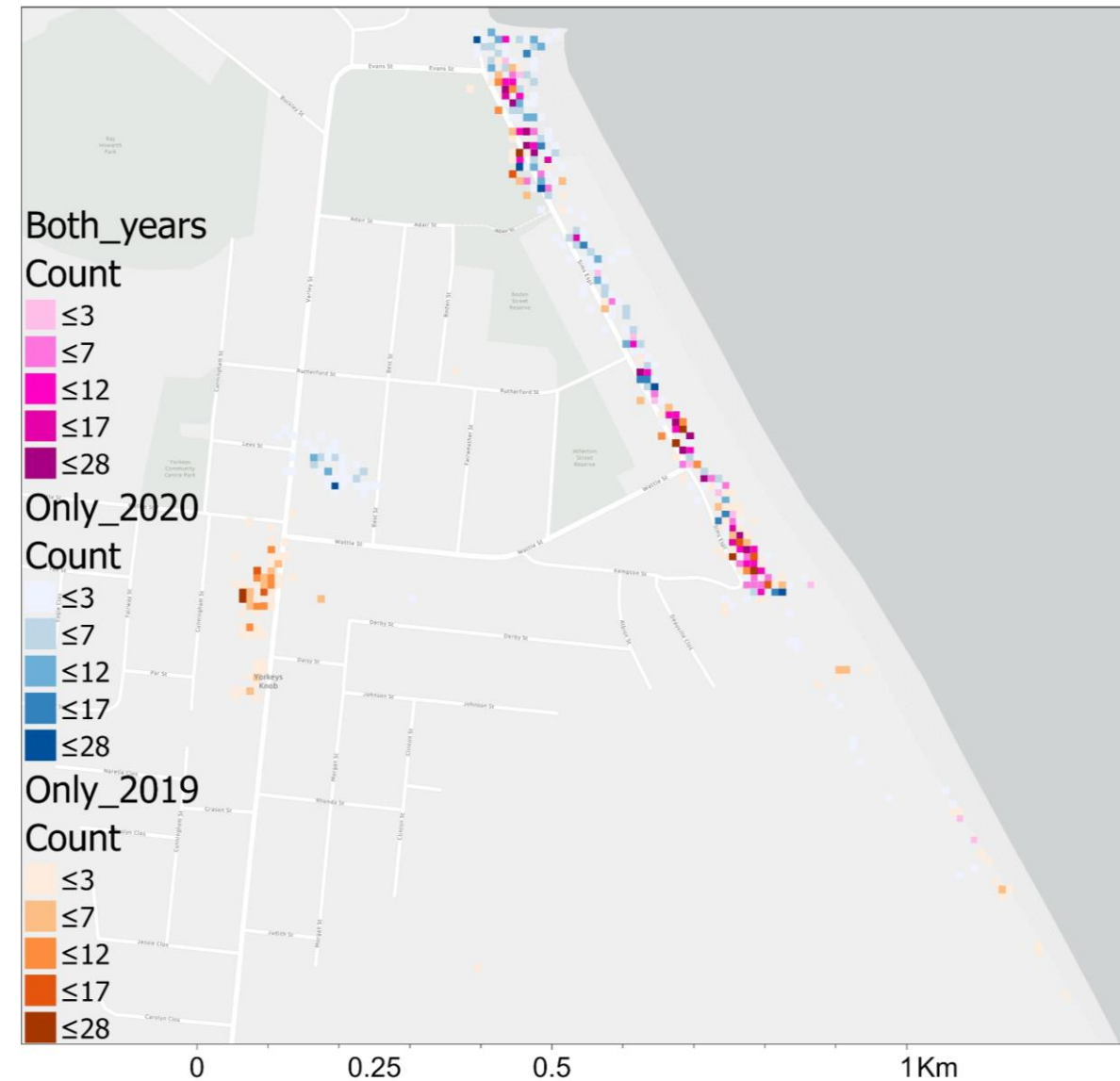

2020

- Cleaned litter data of inaccurate records, and non-litter entries
- Created a 10m **fishnet** for Yorkeys and **spatially joined** records to it.

Question for the audience: How would you have analysed the litter data? Which tests / models would you have used?
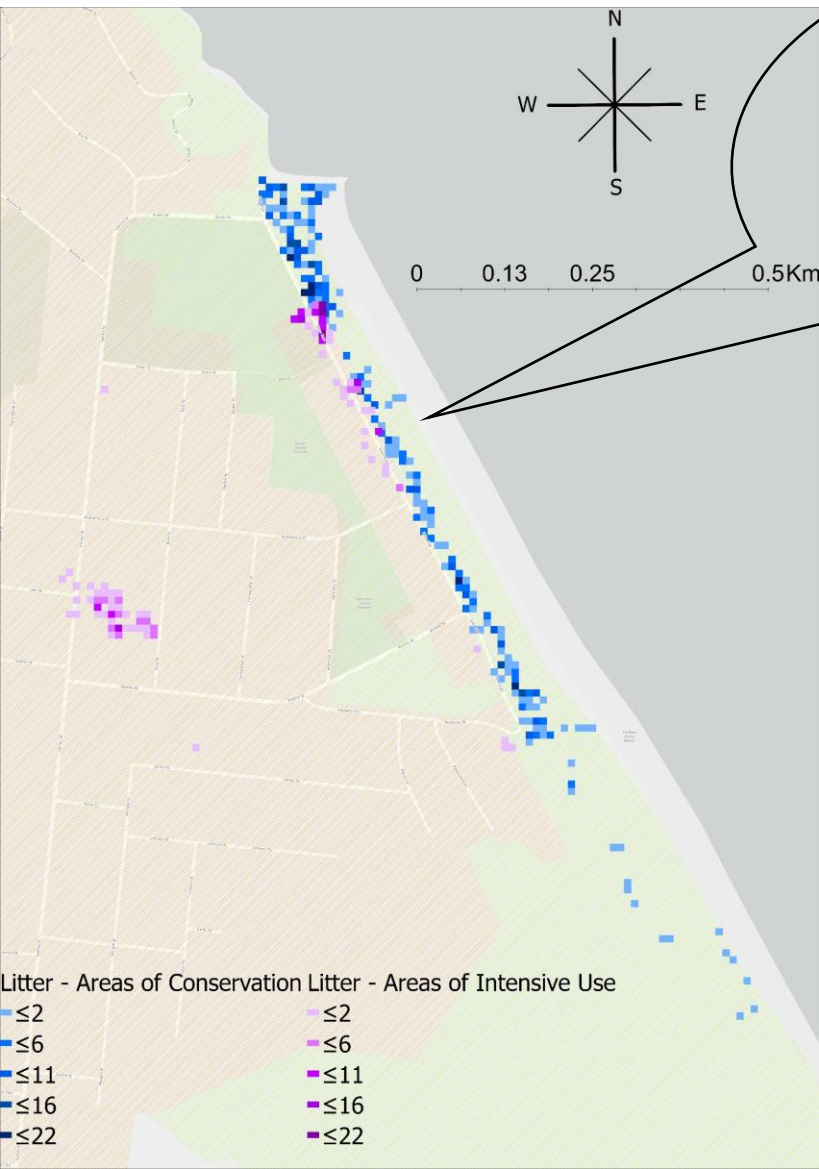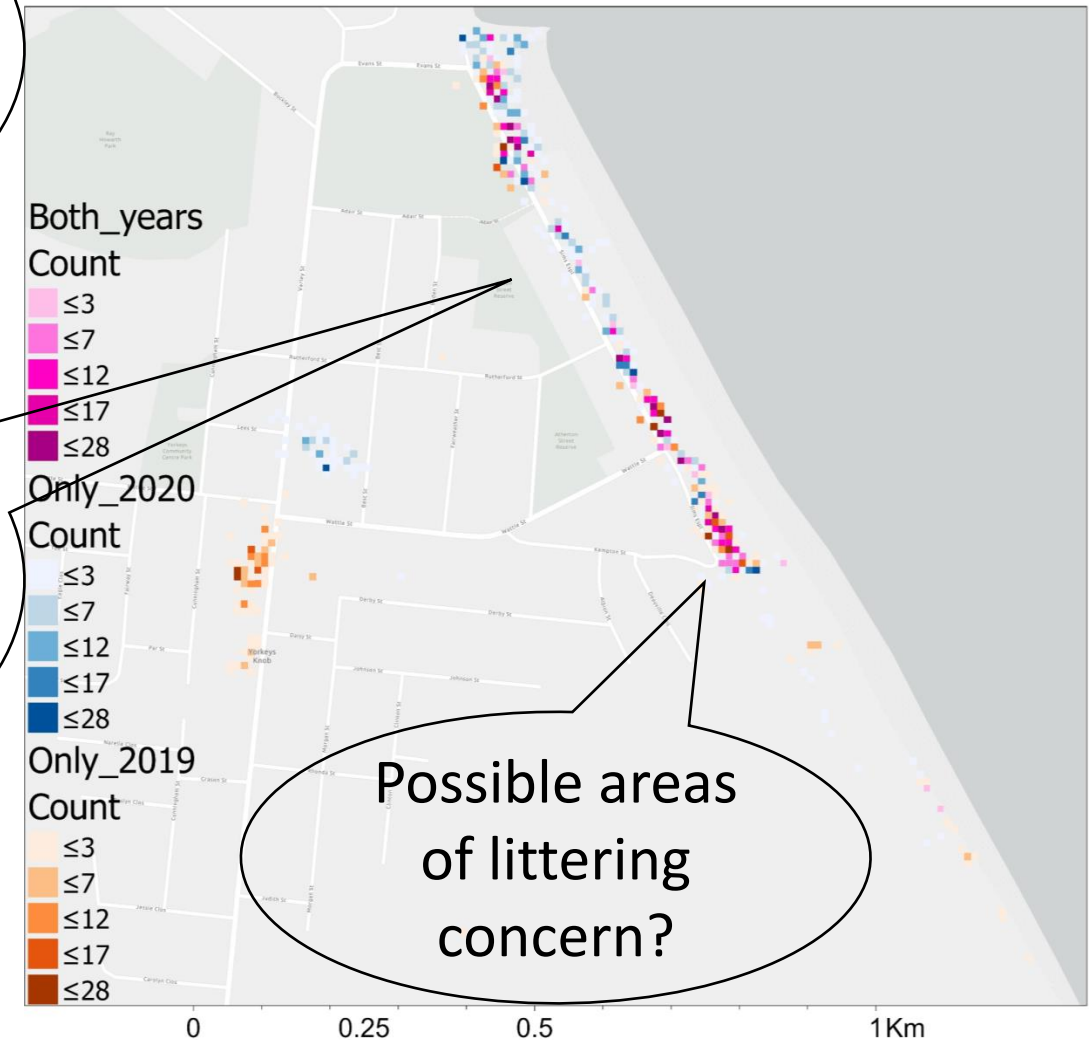

2019
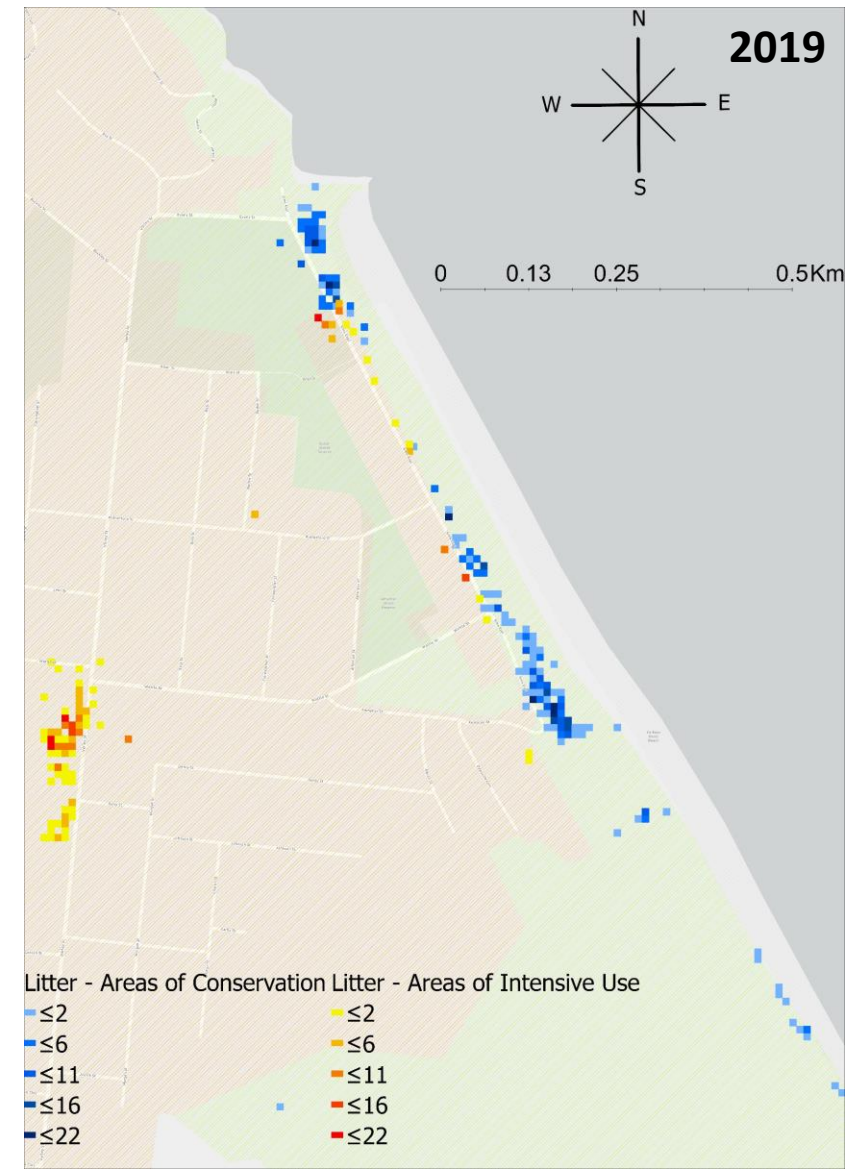
Data analysis – Too simple?

Data interpretation – what story can we tell?

Data interpretation – what story can we tell?