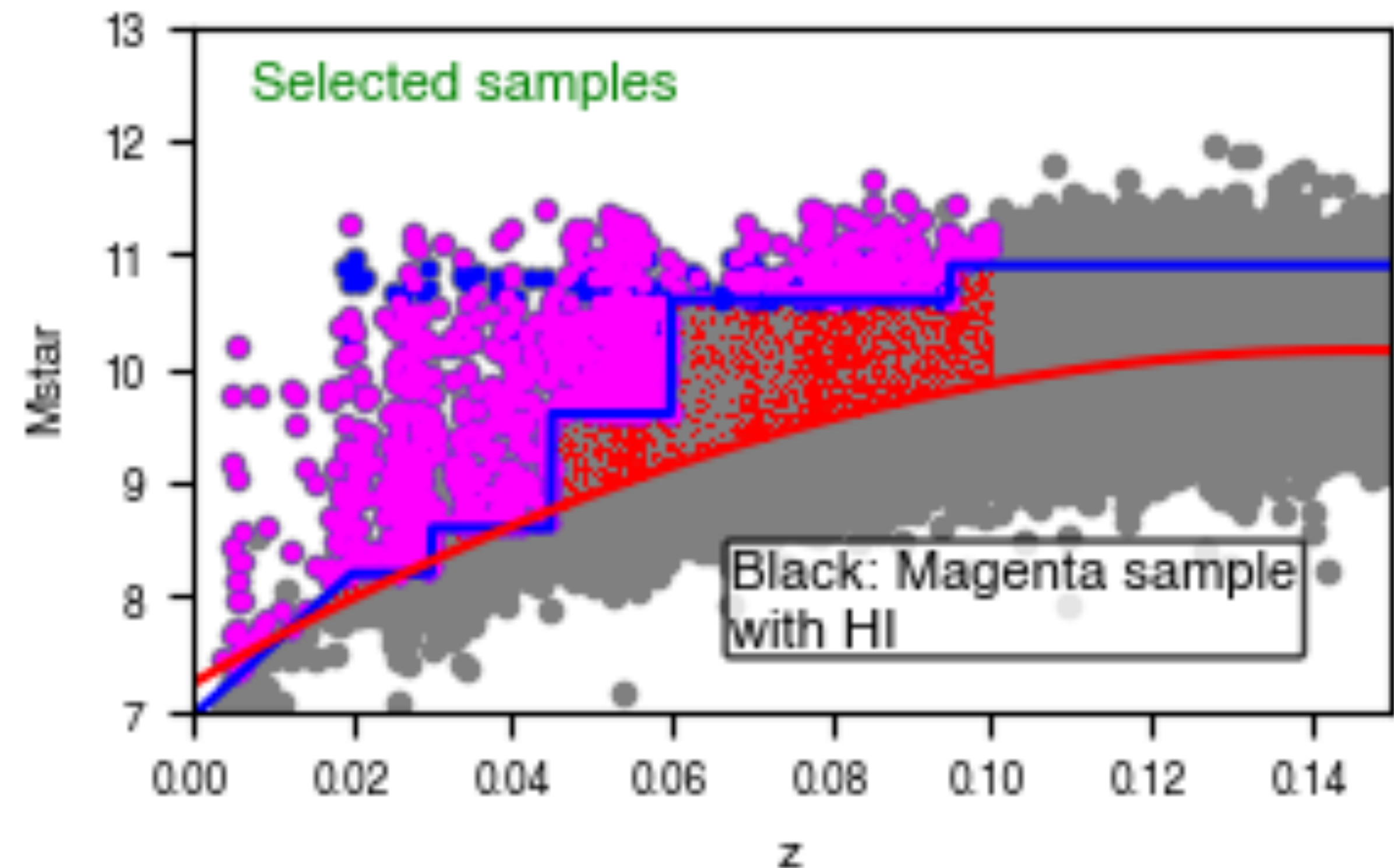


# Target Selection: Quick Reminder

- We're selecting targets which have an  $R_e > 1.5''$  and which lie above the "Hector Steps" in the stellar mass-redshift plane
- The red curve is a limiting mag of 19.7 in the r-band
- We don't have fully complete input catalogues of redshifts- and won't for the start of the survey



# Overlap with ASKAP surveys

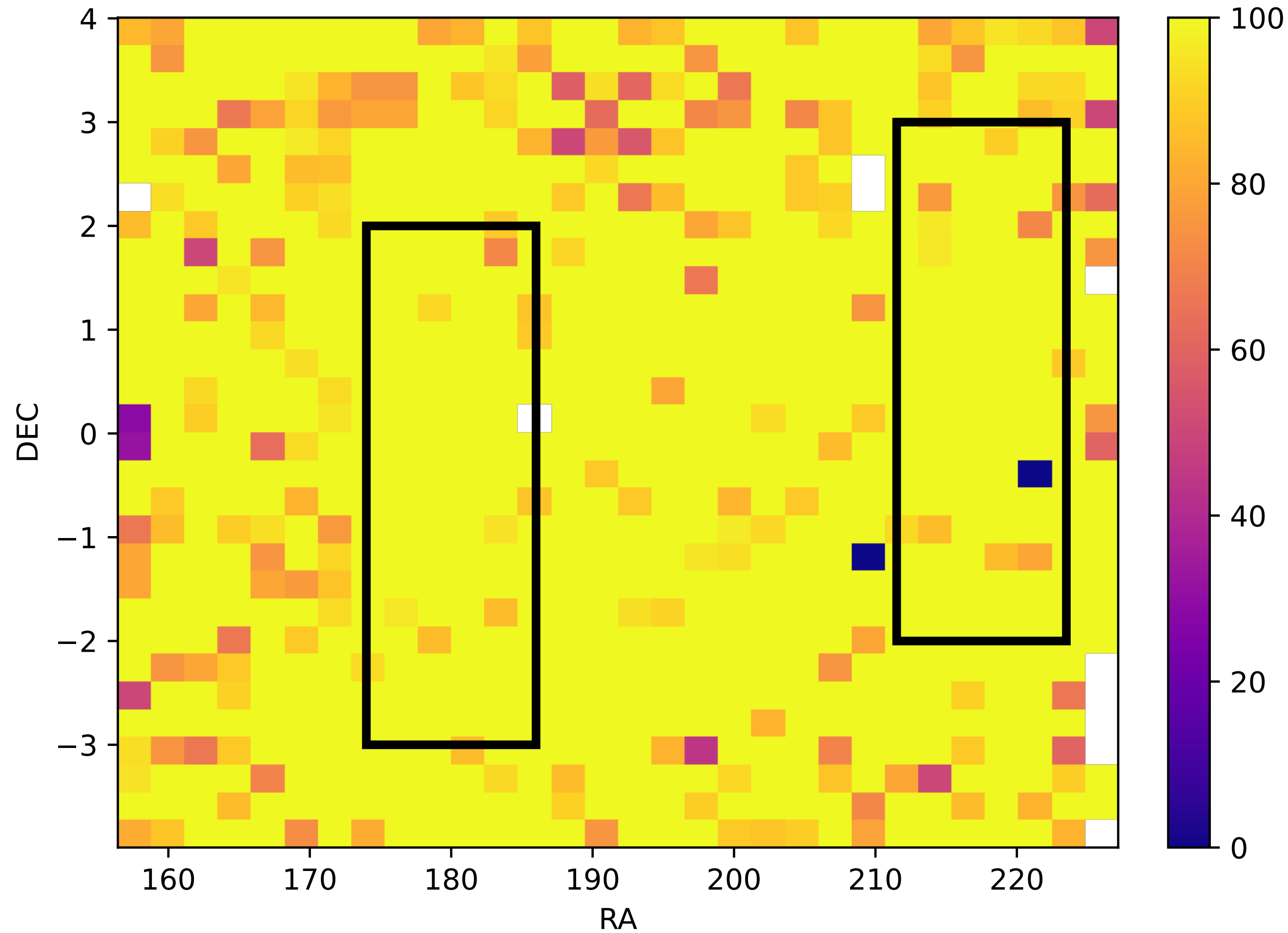
- We want to make sure we observe galaxies which have also been observed by WALLABY and DINGO.
- I've sent Luca our draft catalogues for the coming year
- None of the galaxies observed by ASKAP so far are in our Hector input catalogues
- Luca will keep an eye on progress as the WALLABY and DINGO surveys progress and let us know when any of our targets are observed.

# Spectroscopic Redshift Completeness: WAVES regions

- Photometry: WAVES input catalogues
- Redshifts: A master compilation of various spectroscopic surveys from Ned Taylor as well as redshifts from our Hector Redshift Survey.
- Still working out some tweaks with the WAVES input catalogue, so these numbers may be subject to change...

# Spectroscopic Redshift Completeness: North

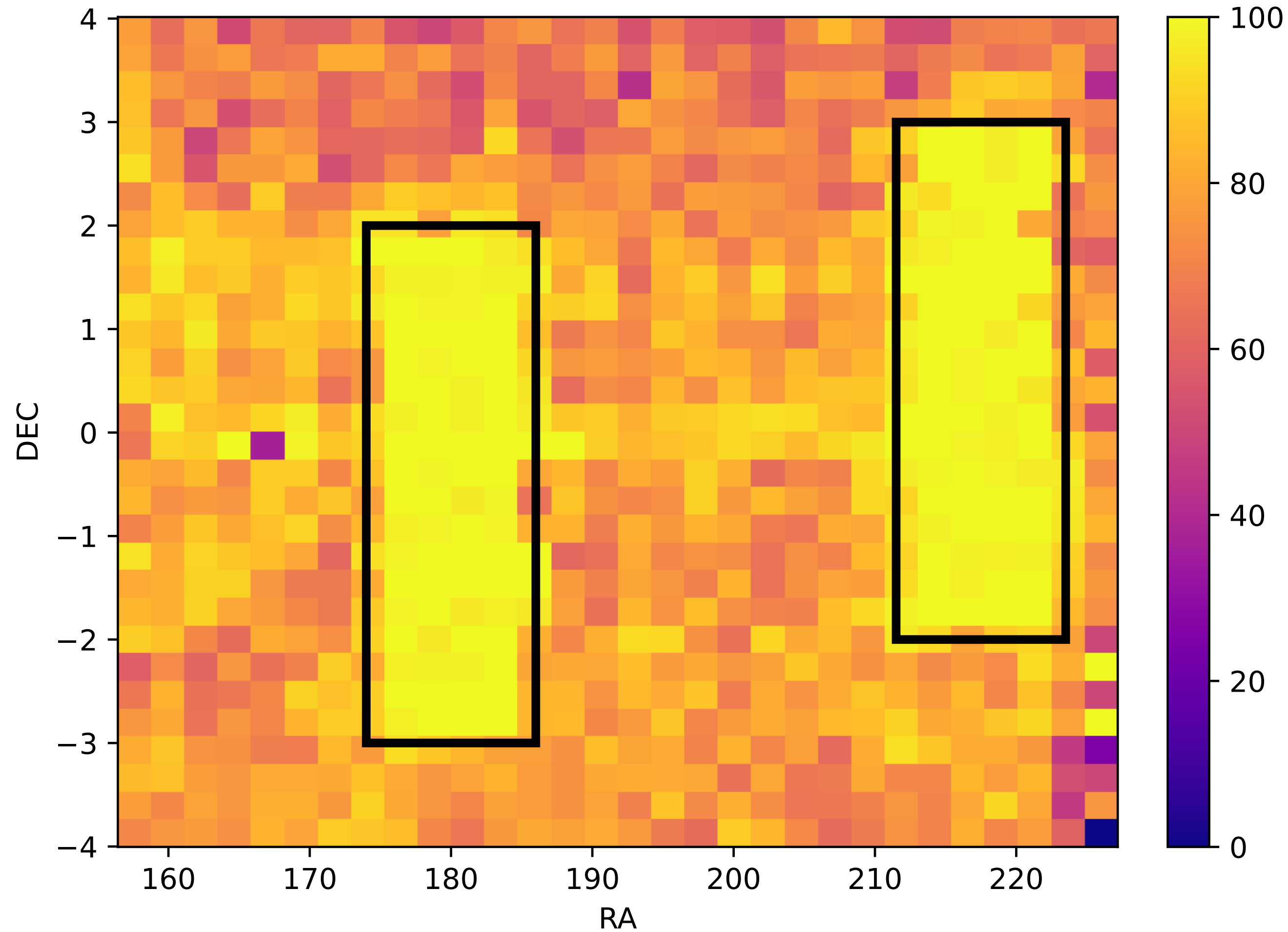
WAVES N (19th magnitude)



- R-mag of 19: 95.5%
- R-mag of 20: 81.2%
- R-mag of 21: 47.9%
- R-mag of 22: 24.1%

# Spectroscopic Redshift Completeness: North

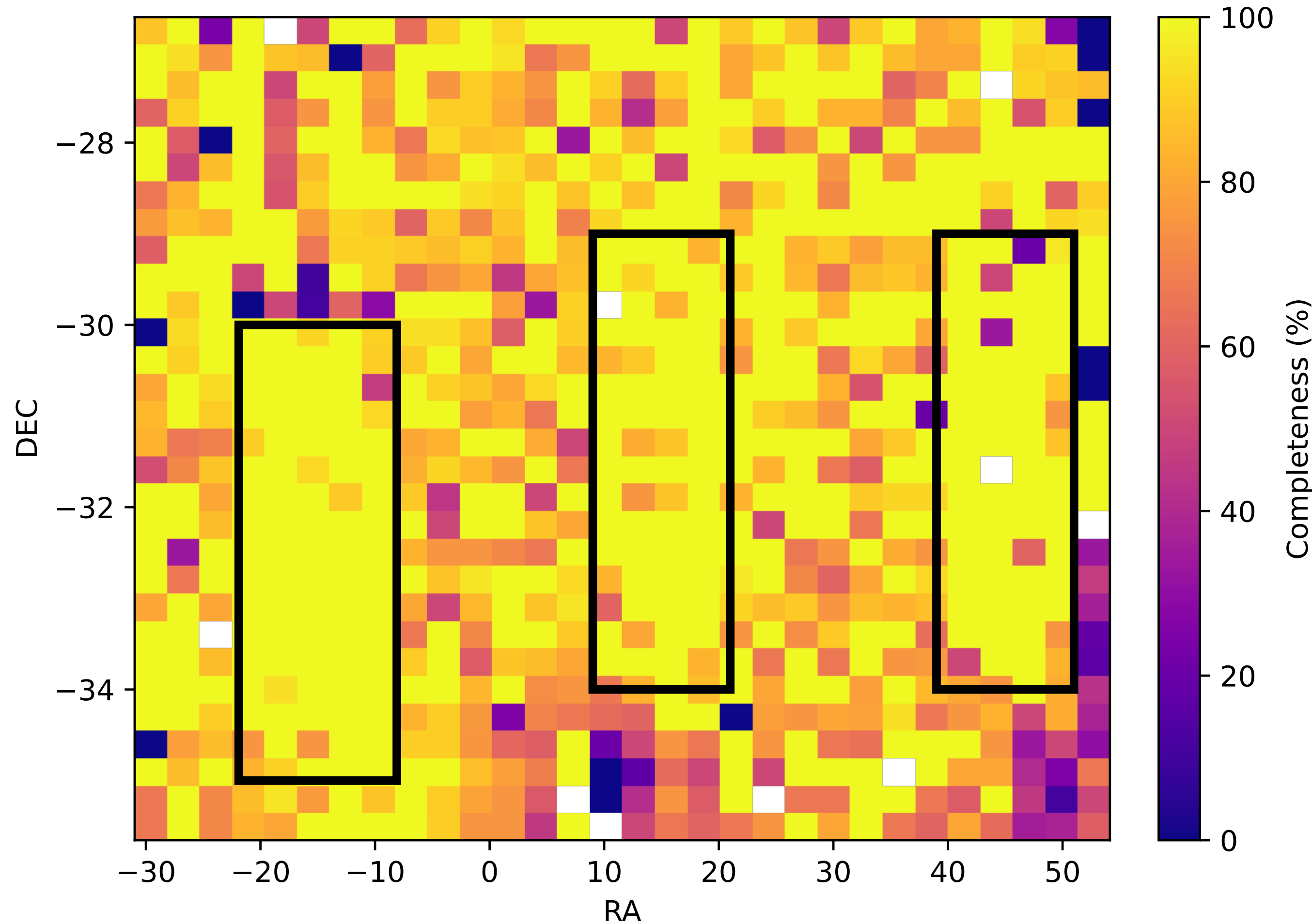
WAVES N (20th magnitude)



- R-mag of 19: 95.5%
- R-mag of 20: 81.2%
- R-mag of 21: 47.9%
- R-mag of 22: 24.1%

# Spectroscopic Redshift Completeness: South

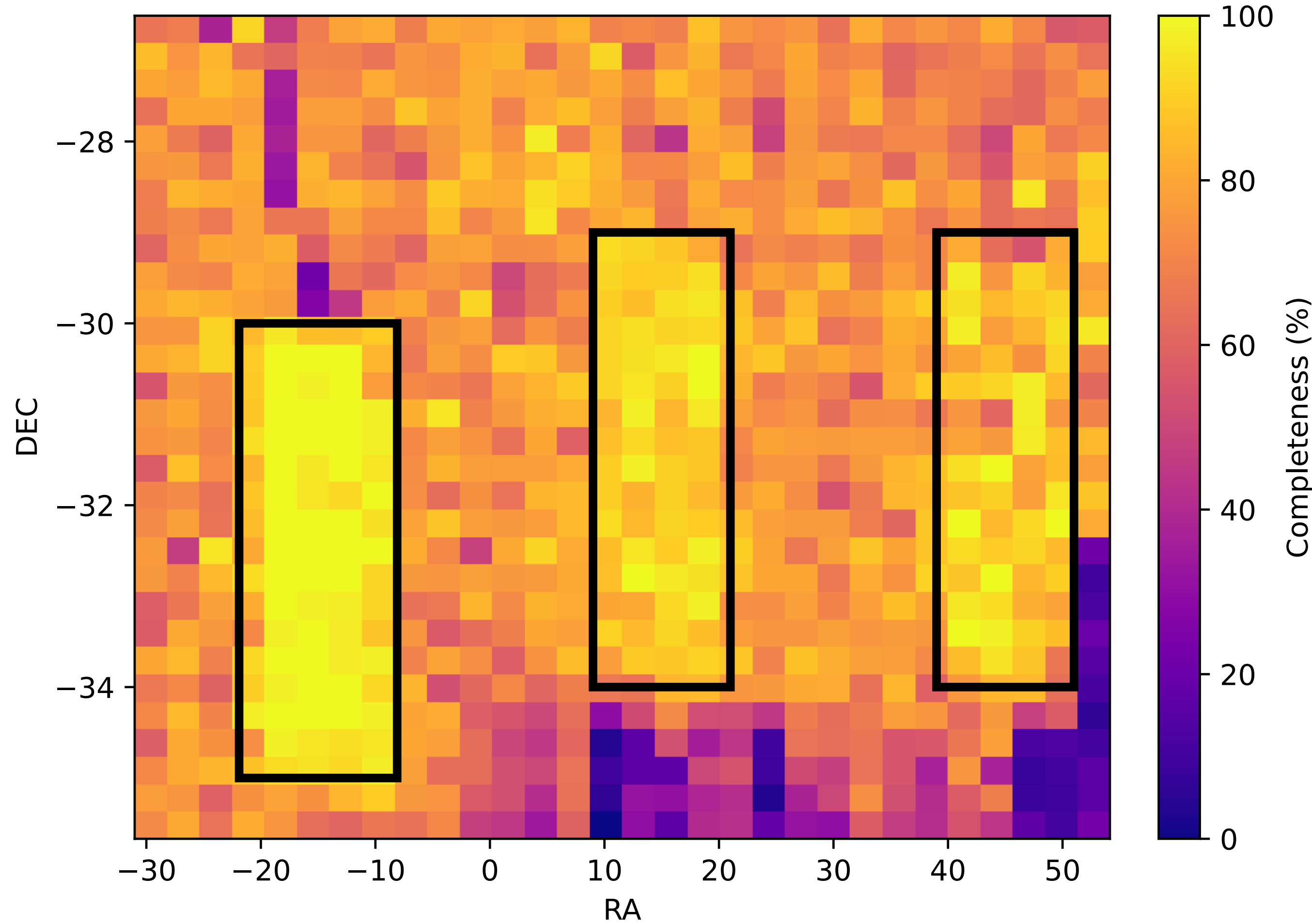
WAVES S (19th magnitude)



- R-mag of 19: 84.8%
- R-mag of 20: 73.9%
- R-mag of 21: 38.7%
- R-mag of 22: 15.8%

# Spectroscopic Redshift Completeness: South

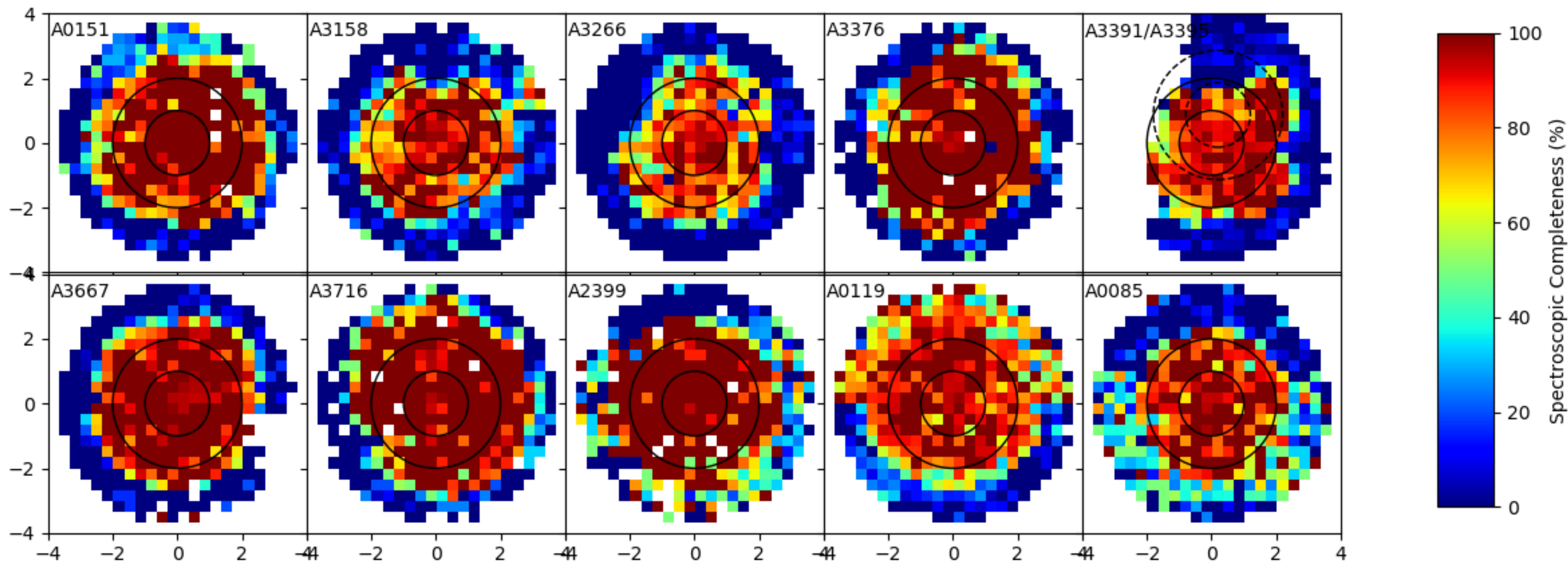
WAVES S (20th magnitude)



- R-mag of 19: 84.8%
- R-mag of 20: 73.9%
- R-mag of 21: 38.7%
- R-mag of 22: 15.8%

# Spectroscopic Redshift Completeness: Clusters

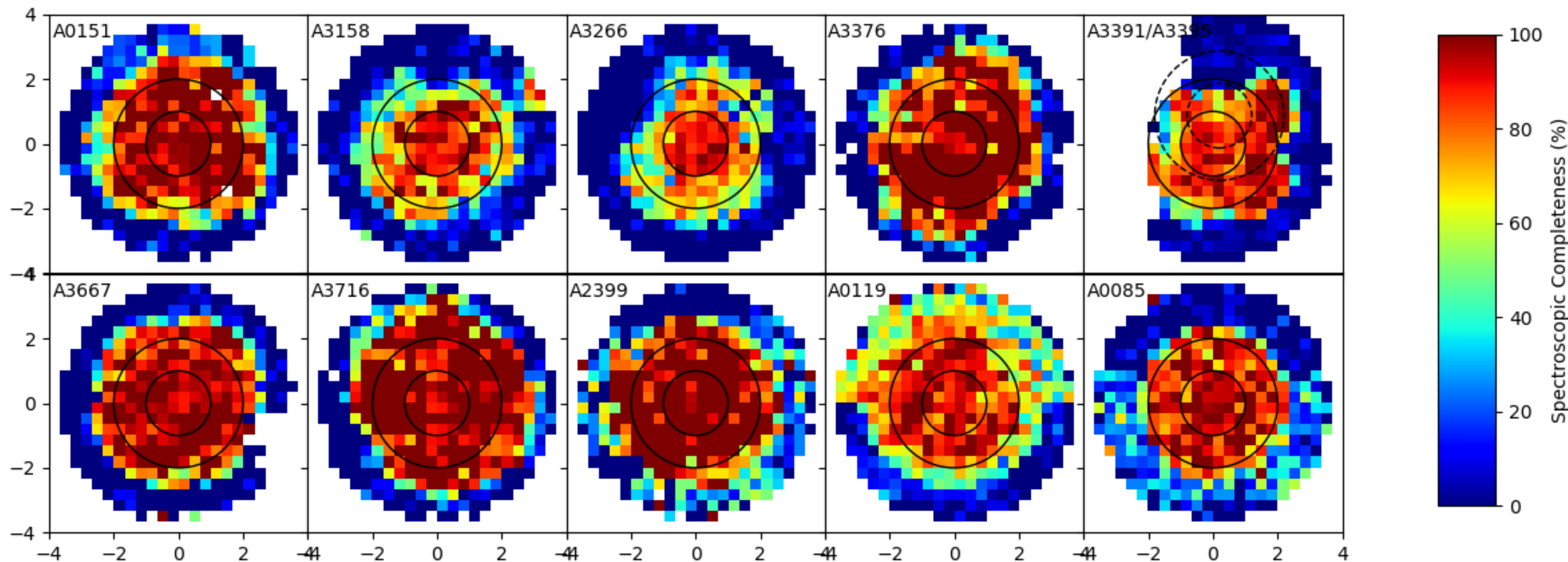
Spectroscopic Completeness to  $r\_mag = 18.5$





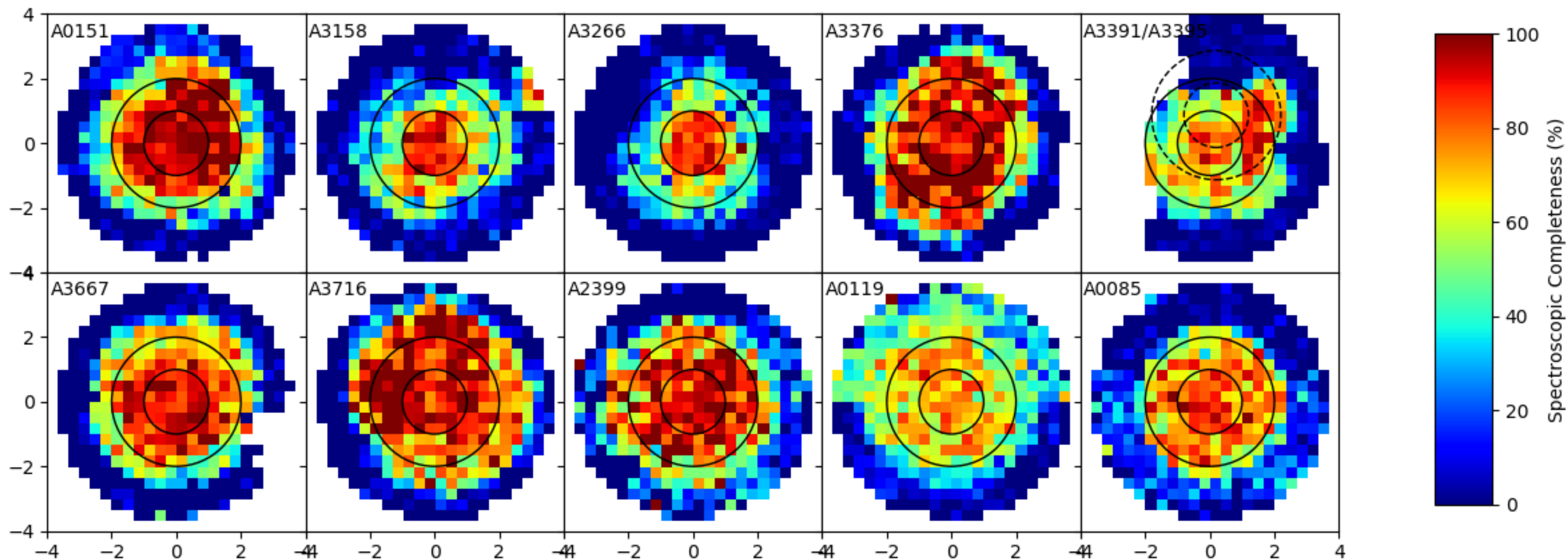
# Spectroscopic Redshift Completeness: Clusters

Spectroscopic Completeness to  $r\_mag = 19.0$



# Spectroscopic Redshift Completeness: Clusters

Spectroscopic Completeness to  $r\_mag = 19.5$



# Summary

- We'll be continuing with the redshift survey throughout this semester (first night March the 1st)
- A few catalogue questions/issues to sort out with the WAVES team before we can run everything through the target selection pipeline (should be complete by next meeting)
- We'll need to work closely with the WAVES team to get access to their redshifts ASAP, in both the North and South