Field Protocols 2018

Magnet tests:

Test 1 cactus species and 1 shrub species. Place pantraps under flowering and in open area – shoot for 2 m away from plant. 6 shrub open pairs (12 \* 3 traps) per day, 10 days.

Daily tasks:

Put out traps. Place samples into good containers. Do a count of larger specimens in trap.

Put them in top 3 transects.

Veg surveys: Annual abundance, % cover, richness

Shrub size -> x, y, z

I’m thinking s.mexicana & c. echinacarpa

Visitation network:

Alarcon did between 70-140 hours of visitation with 2 people.

4 min per plant, 107 hours -> This would be about 1600 plants

Could do 10 am to 5:30 depending on weather

We can refer to visits as ‘foraging bouts’

Another is 99

So shoot for 100-120 hours of observation time.

Dealing with blooming vs non yet blooming shrubs?

Removed 3 m around edges. Calculate distance to nearest neighbour, and three neighbours? Then also to nearest flowering shrub. Add this info to attribute table and colour the points based on how much above or below average nearest neighbour?

Then find just the flowering ones and tag them.

Walk through in a big circle – do 5 min per plant?

Collect all visitors? That’s a lot of bees ☹

Collect one or two stigma per sampled plant. Place on slide out there. Dab stigma around in fushcin and then melt. Only around 200 total?

Enter data daily or almost daily.

Species:

We will likely have:

Larrea

Acamptapappus

S. Mexicana

Menodora

C. echinacarpa

Krameria

Annuals: Amsinckia, phacelia?