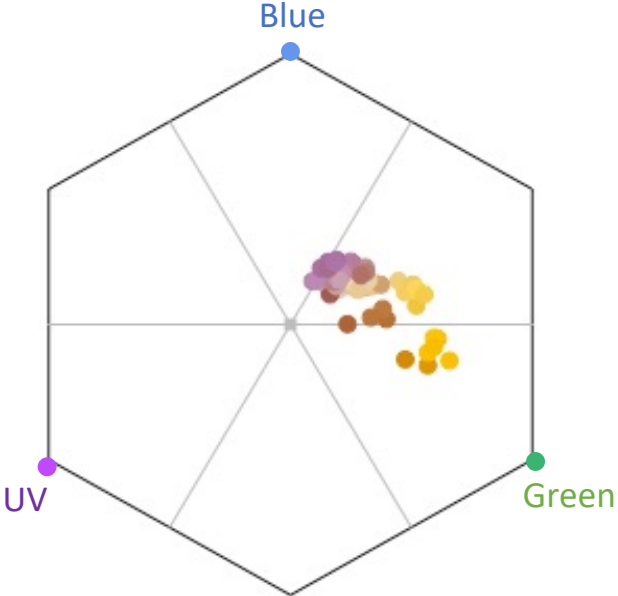


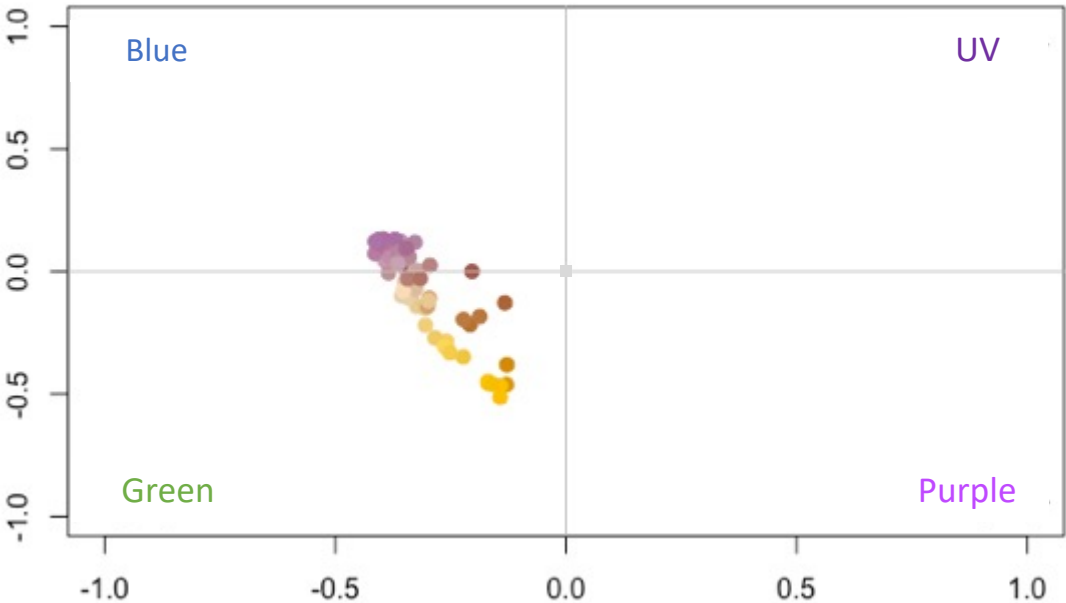
Transect 1 – Hybrid zone (H1)



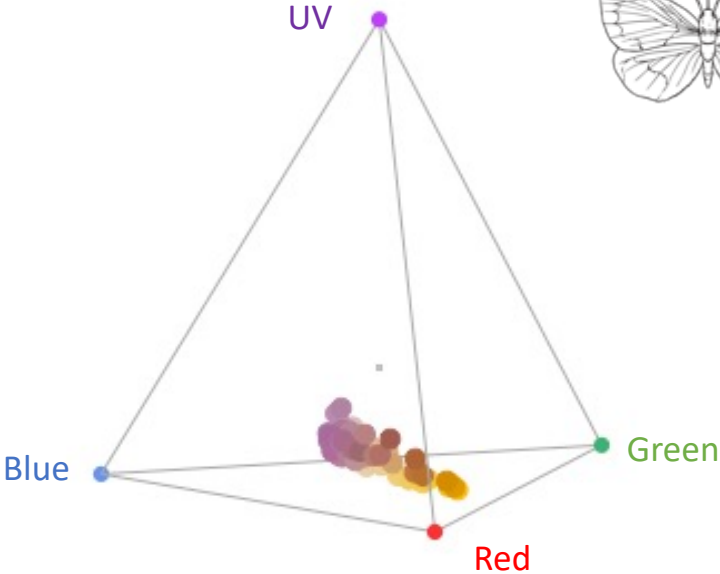
Bees



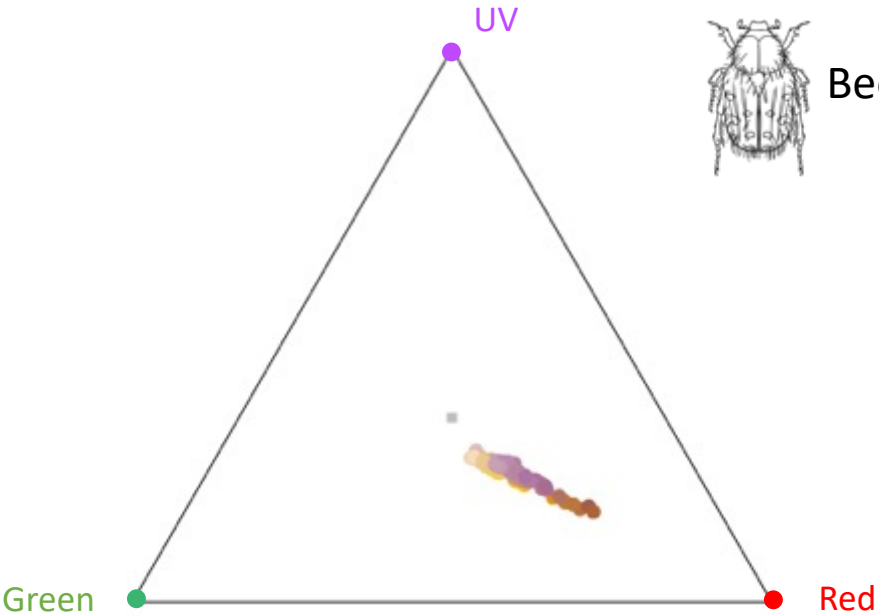
Flies



Butterflies



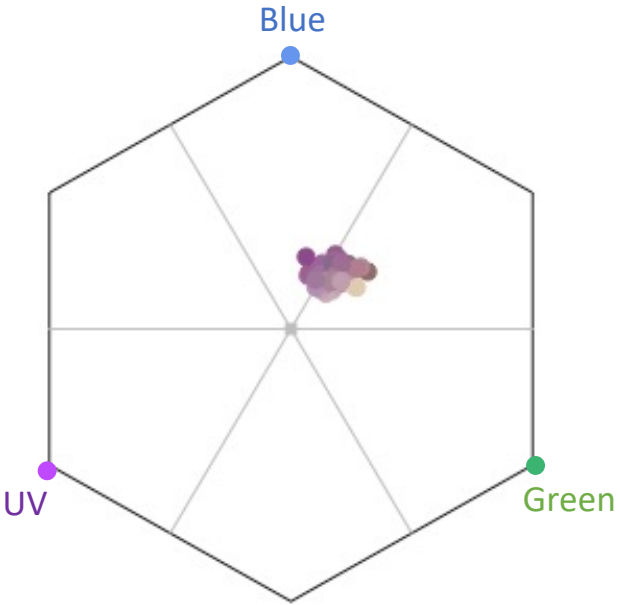
Beetles



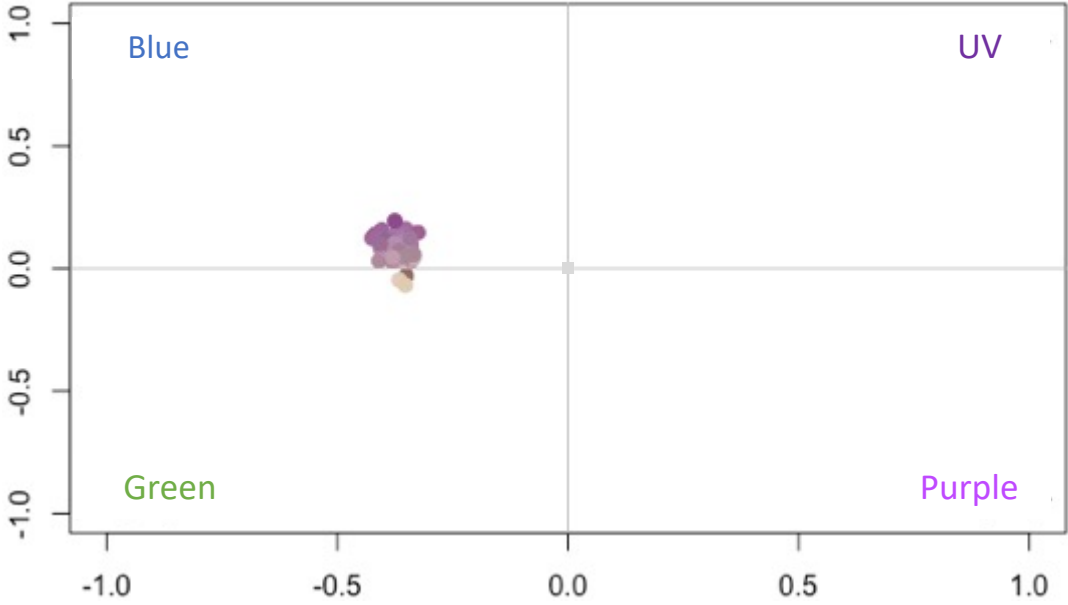
Transect 1 – Purple zone (L1)



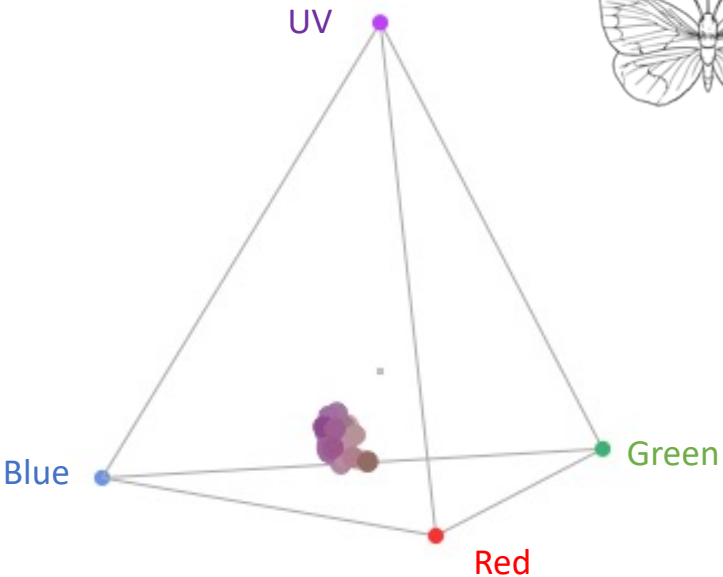
Bees



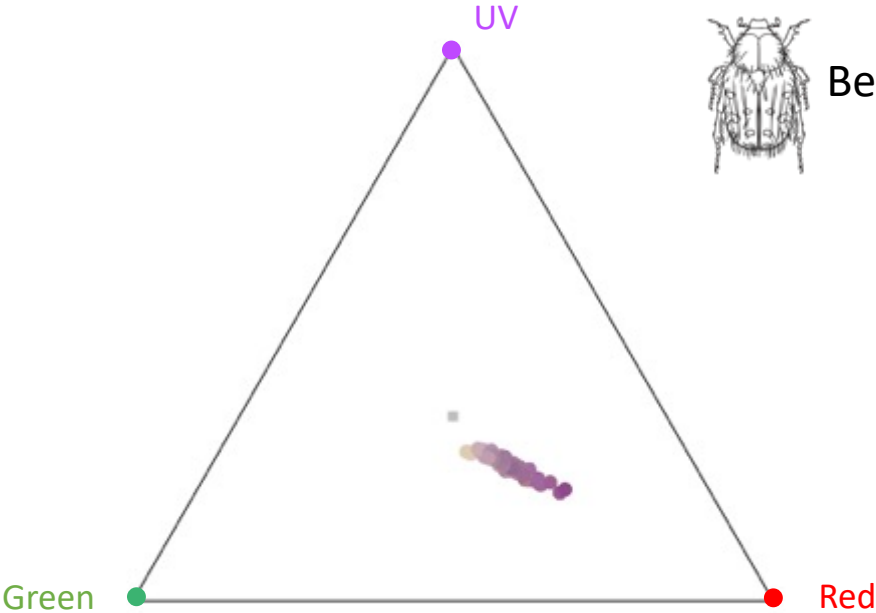
Flies



Butterflies



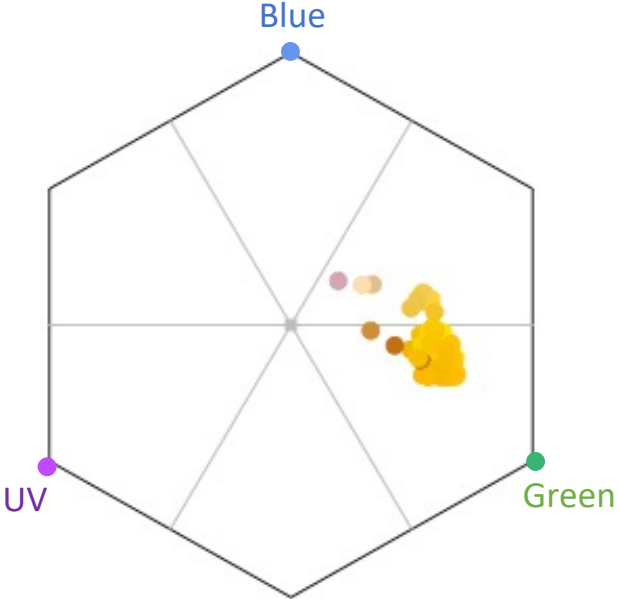
Beetles



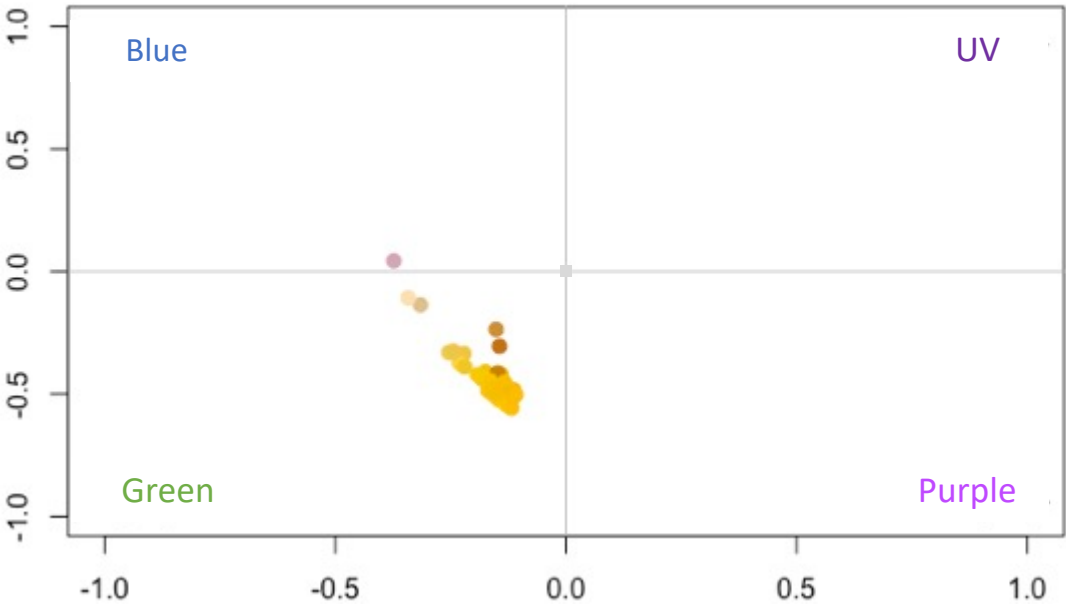
Transect 1 – Yellow zone (M1)



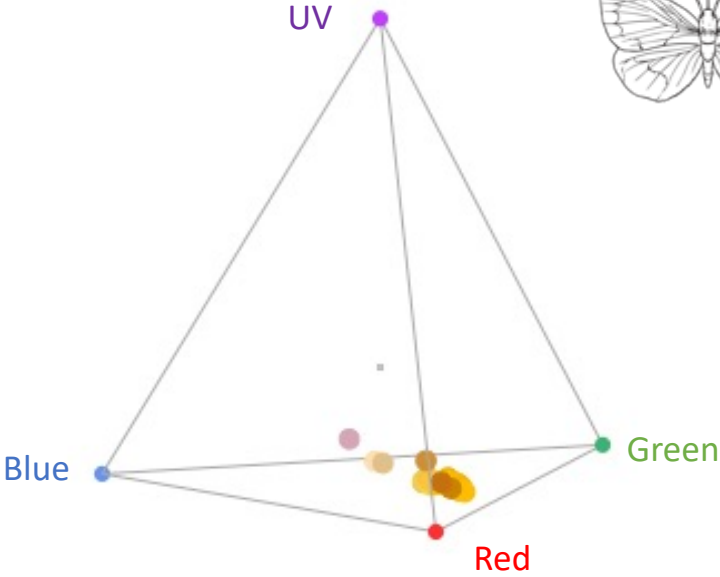
Bees



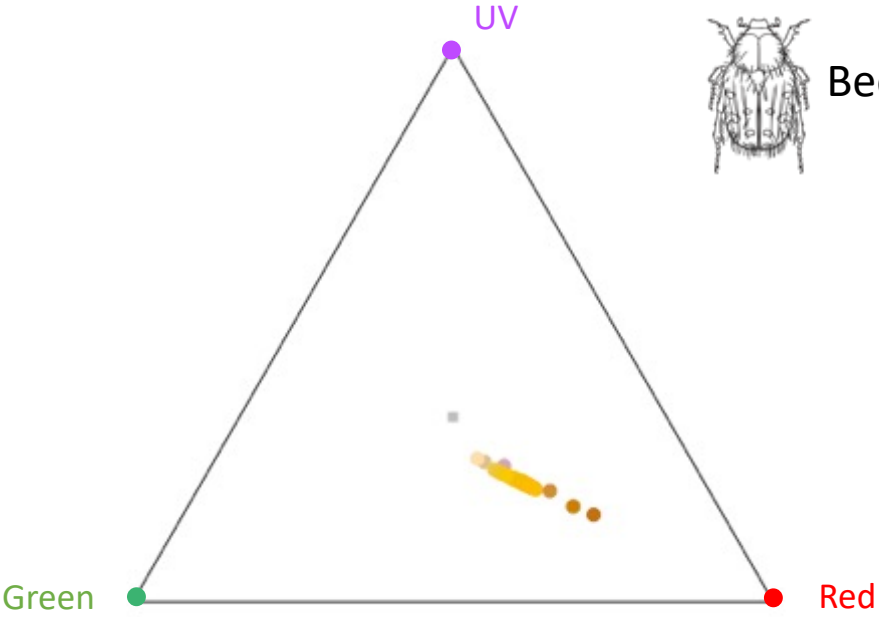
Flies



Butterflies



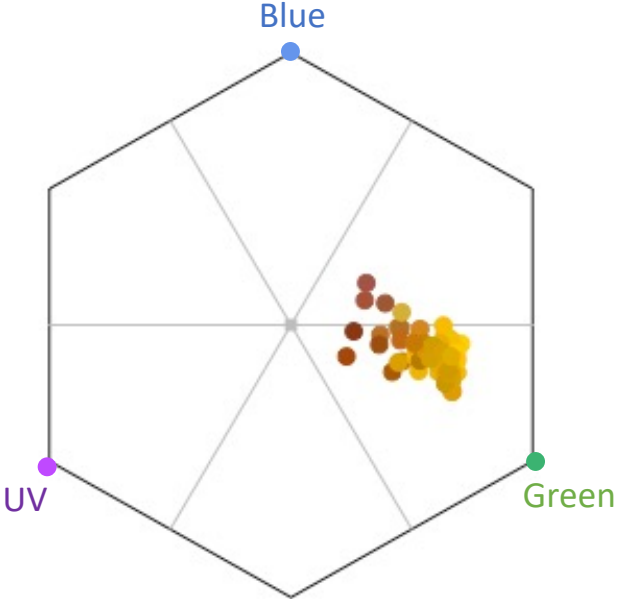
Beetles



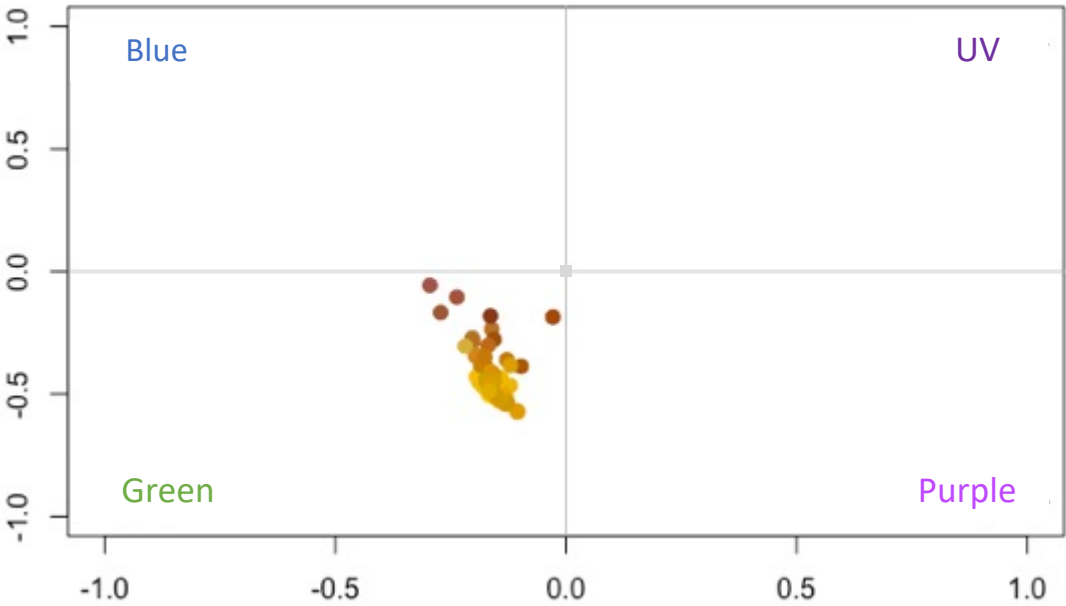
Transect 2 – Hybrid zone (H2)



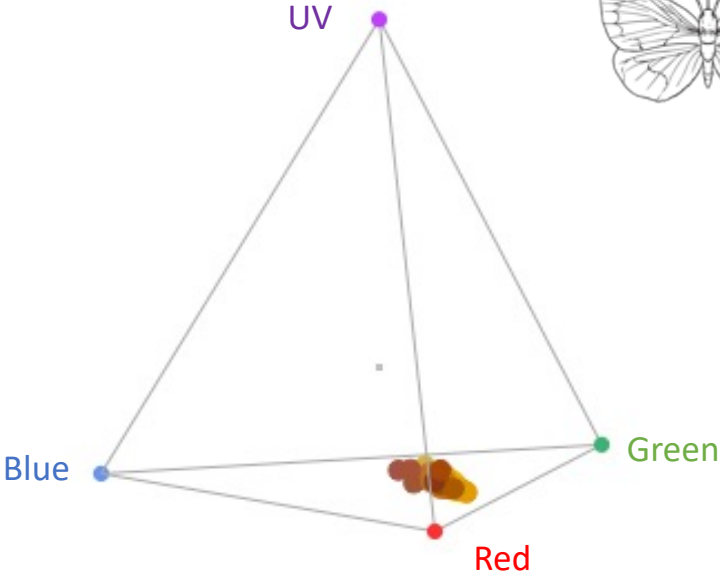
Bees



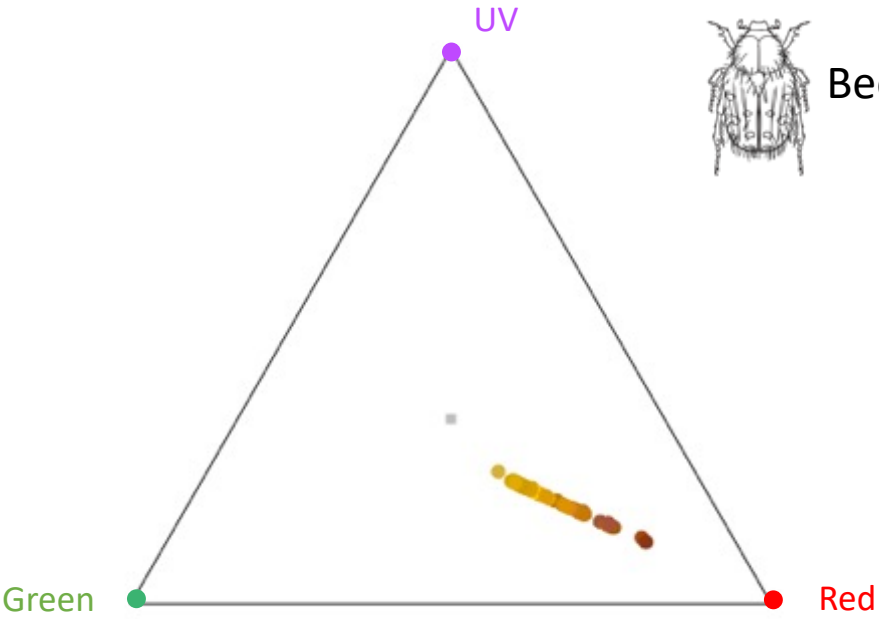
Flies



Butterflies



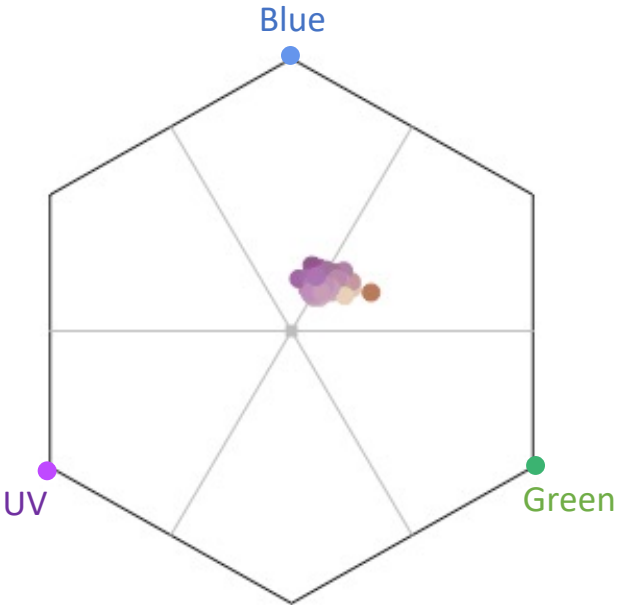
Beetles



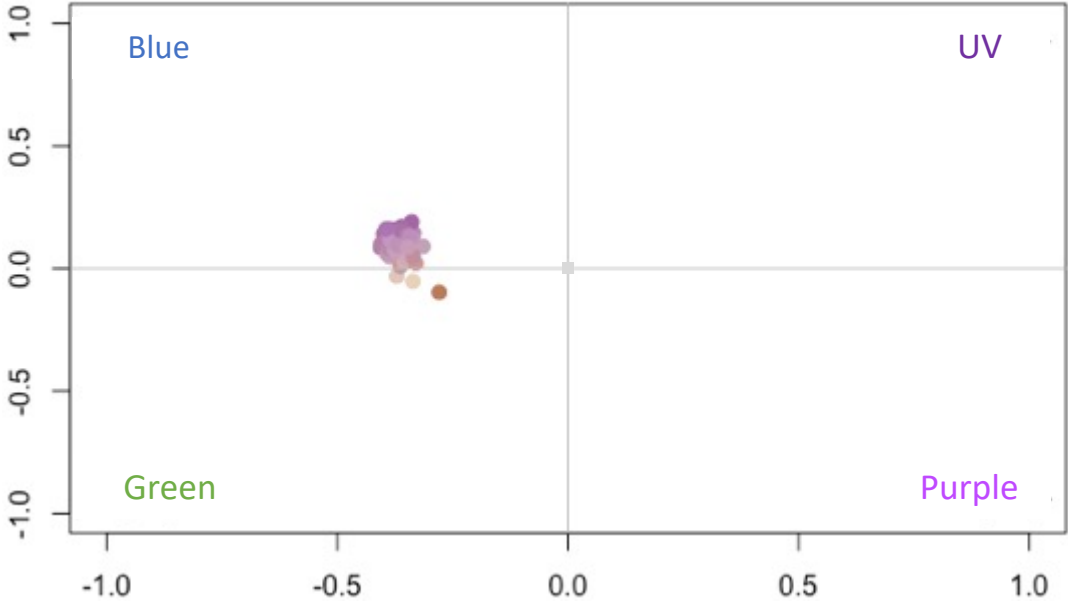
Transect 2 – Purple zone (L2)



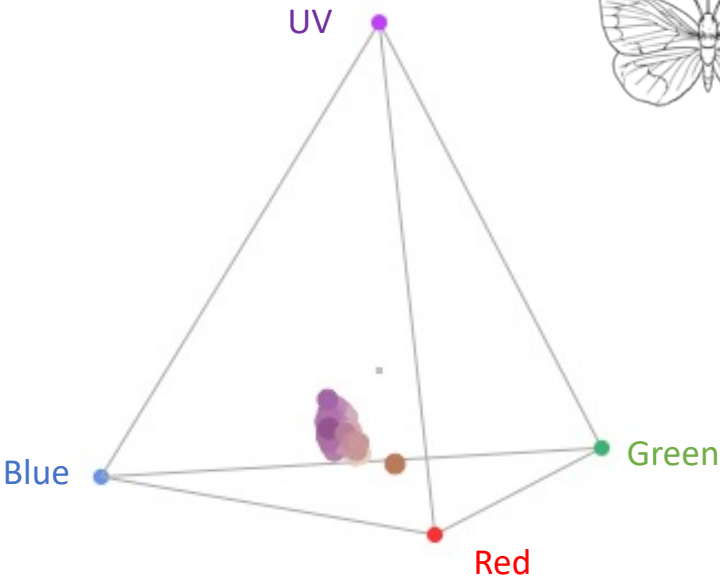
Bees



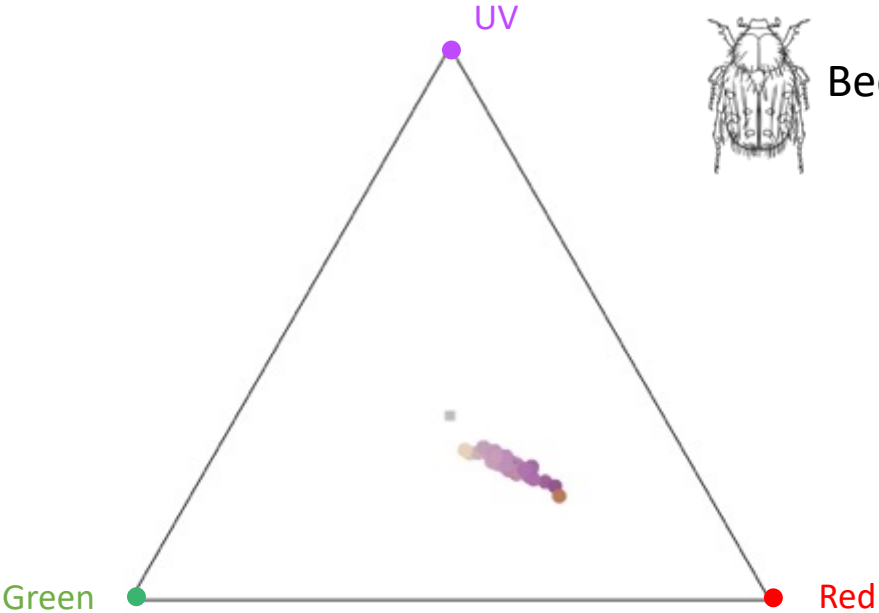
Flies



Butterflies



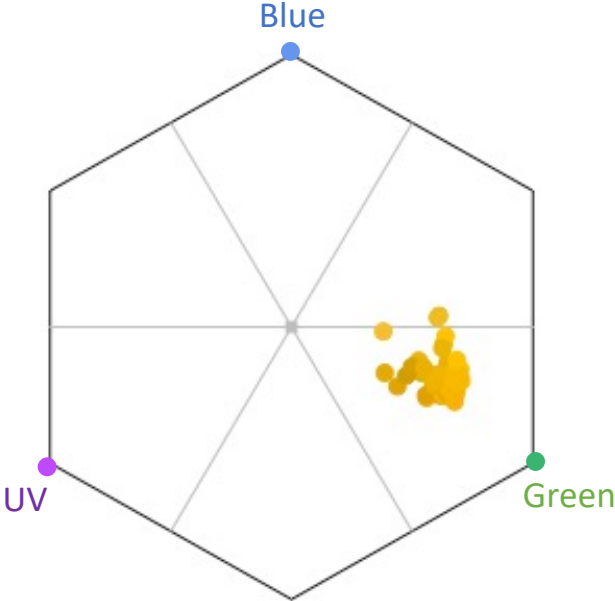
Beetles



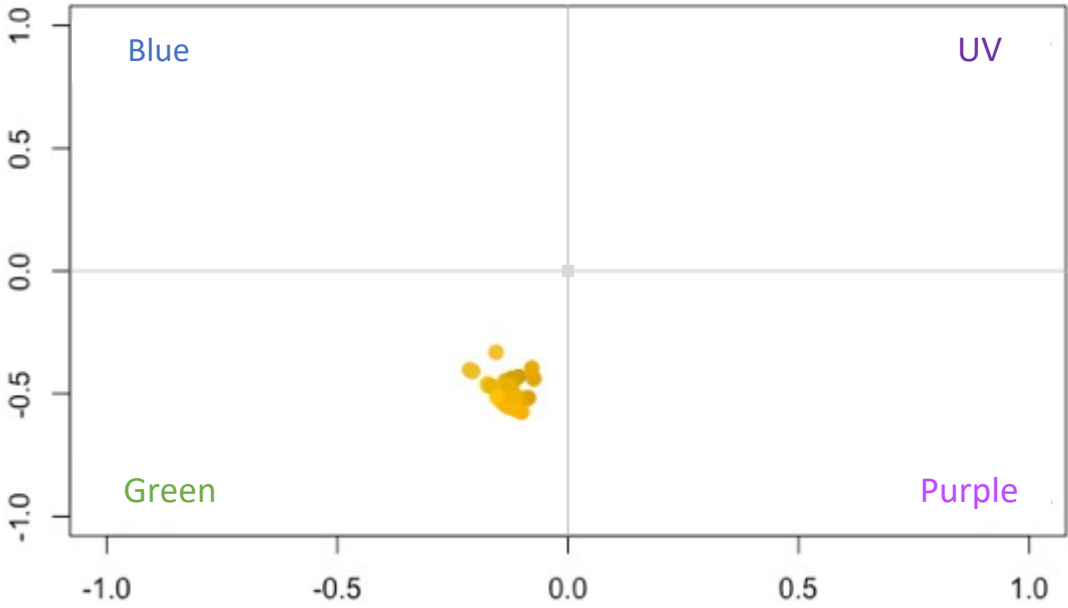
Transect 2 – Yellow zone (M2)



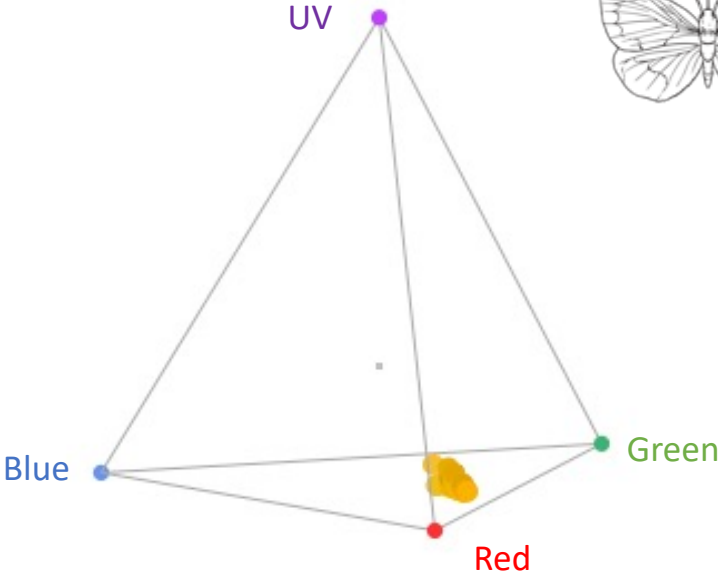
Bees



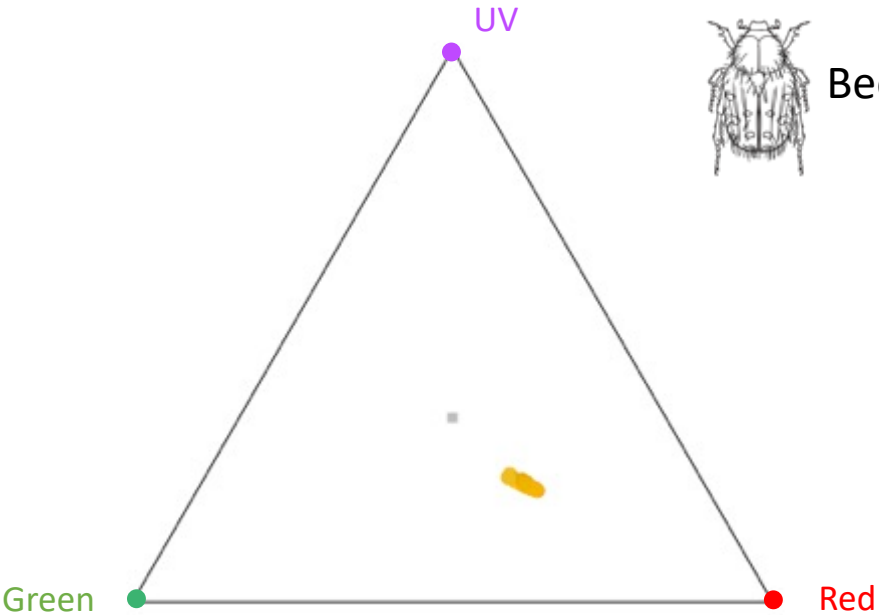
Flies



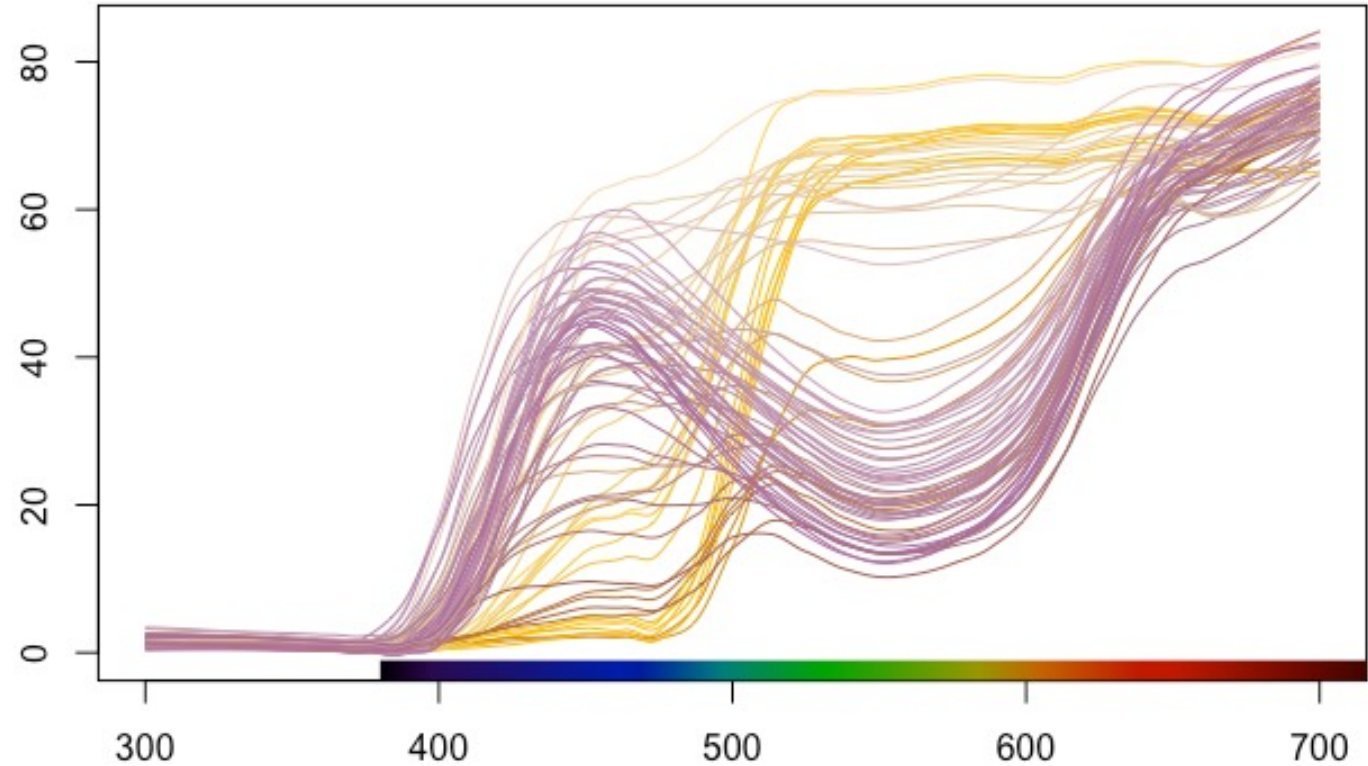
Butterflies



Beetles



Transect 1 – Hybrid zone (H1)



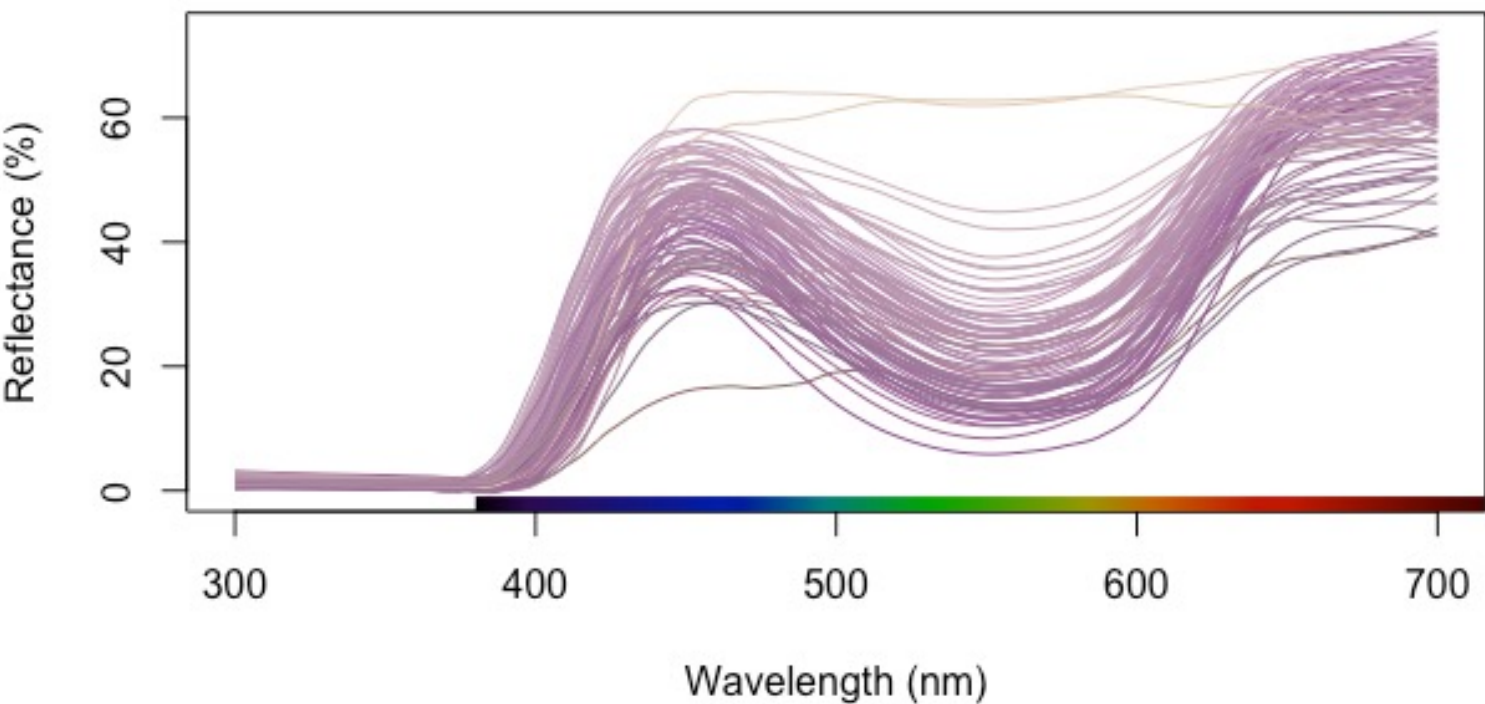
**chrom\_contrast\_statistics**

	mean	min	max	median	se
bees	0.3136800	0.1789464	0.5978283	0.2845500	0.011457634
butterflies	0.2102076	0.1265918	0.3556475	0.1935882	0.006119419
flies	0.3752309	0.1841647	0.5331792	0.3743004	0.006552549
beetles	0.1906536	0.09058221	0.3762839	0.1863247	0.007557002

**achrom\_contrast\_statistics (green contrast)**

	mean	min	max	median	se
bees	0.2751795	0.07914547	0.3841021	0.2750608	0.008259978

Transect 1 – Purple zone (L1)



chrom\_contrast\_statistics

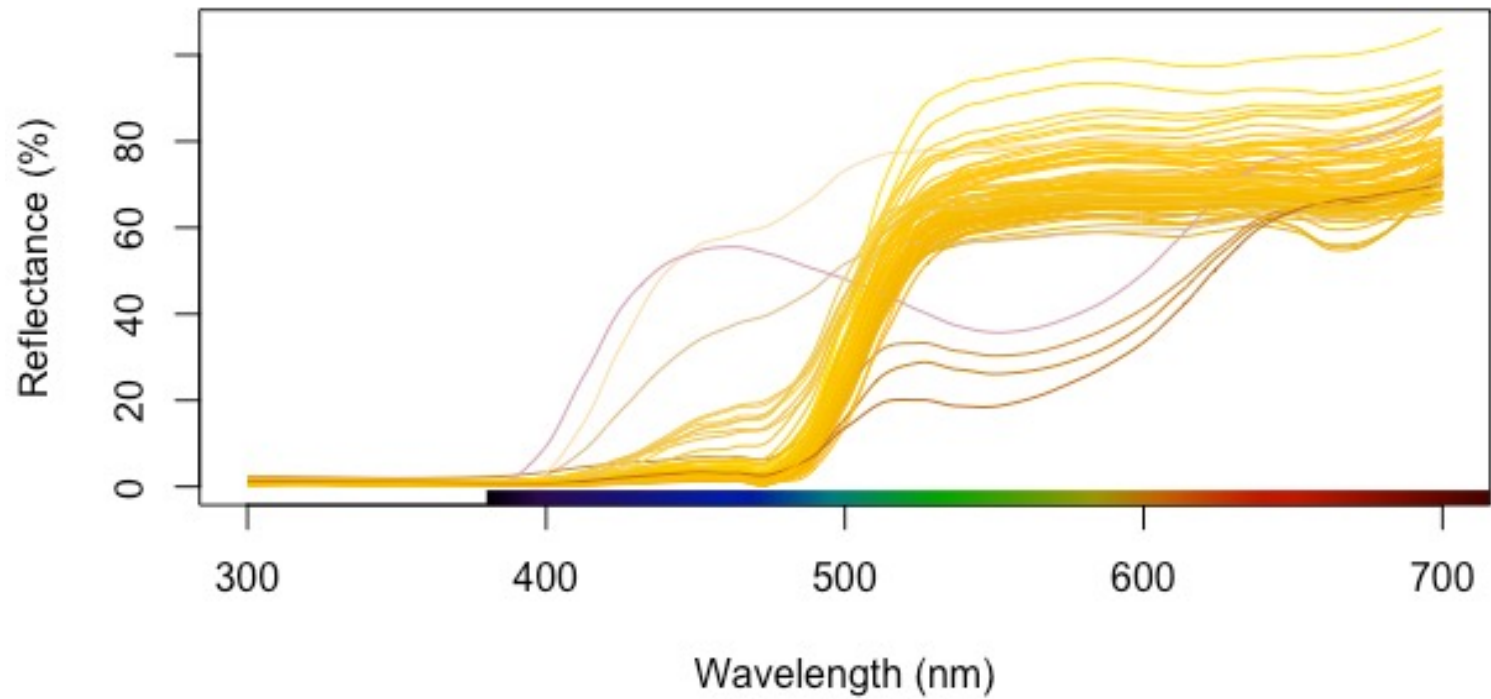
	mean	min	max	median	se
bees	0.2454843	0.1778786	0.3511787	0.2409120	0.004358770
butterflies	0.1769421	0.1405116	0.2207713	0.1770351	0.002160558
flies	0.3862537	0.3374962	0.4430155	0.3852299	0.002792081
beetles	0.1630992	0.08409076	0.2956702	0.1535540	0.004991669

achrom\_contrast\_statistics (green contrast)

	mean	min	max	median	se
bees	0.2427705	0.06649248	0.3674362	0.251627	0.006375478



Transect 1 – Yellow zone (M1)



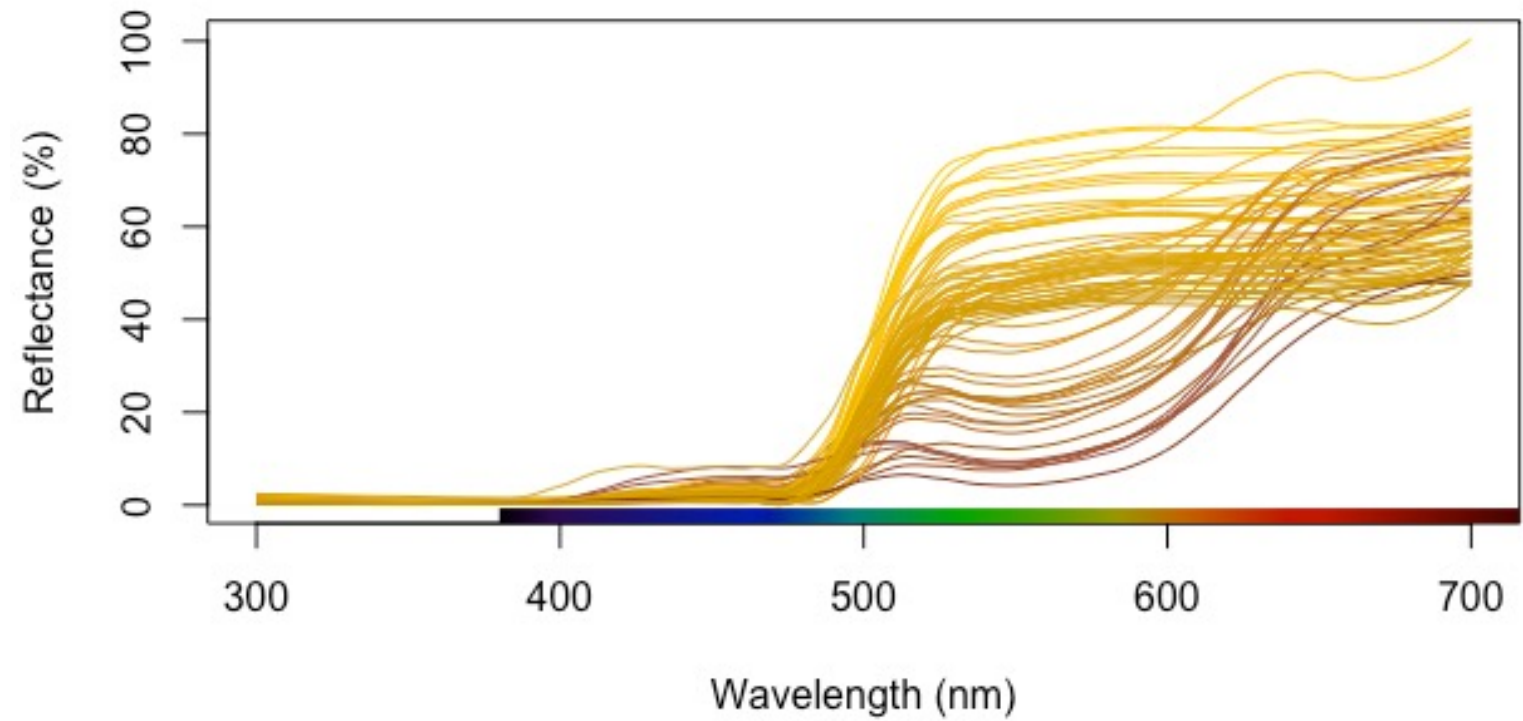
chrom\_contrast\_statistics

	mean	min	max	median	se
bees	0.5398116	0.2373915	0.6340233	0.5589192	0.008634015
butterflies	0.3316564	0.1703588	0.3743446	0.3443126	0.004267754
flies	0.4923201	0.2804055	0.5697114	0.5123872	0.006334688
beetles	0.2094978	0.1065254	0.3785800	0.2124889	0.004008362

achrom\_contrast\_statistics (green contrast)

	mean	min	max	median	se
bees	0.3341382	0.1535166	0.385752	0.3362134	0.003482124

Transect 2 – Hybrid zone (H2)



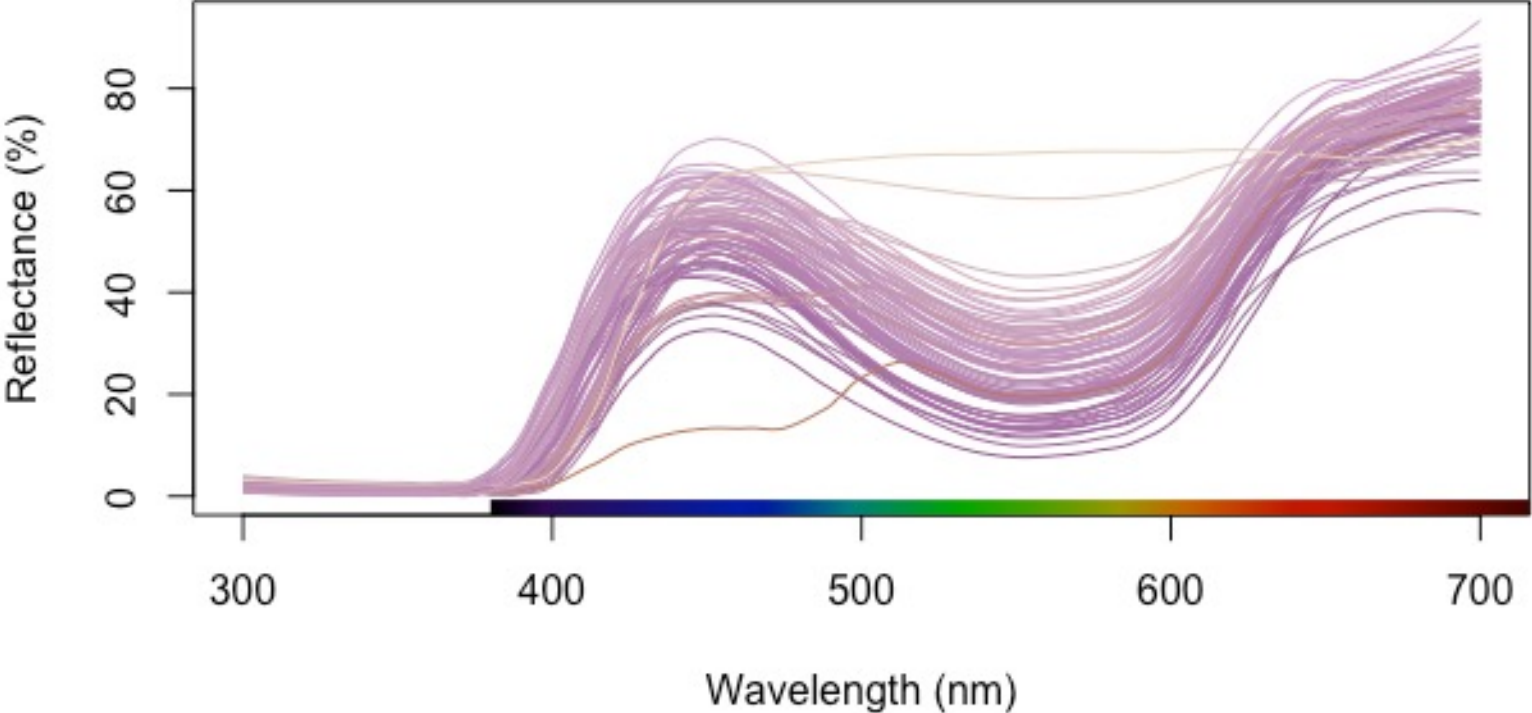
chrom\_contrast\_statistics

	mean	min	max	median	se
bees	0.5265343	0.2315002	0.6412062	0.5638630	0.012410043
butterflies	0.3408953	0.2509208	0.3875475	0.3473723	0.003093788
flies	0.4666973	0.1877518	0.5826759	0.4934556	0.010642738
beetles	0.2637477	0.1567676	0.5096073	0.2251460	0.009677676

achrom\_contrast\_statistics (green contrast)

	mean	min	max	median	se
bees	0.2539445	0.008551132	0.357816	0.2813446	0.01075652

Transect 2 – Purple zone (L2)



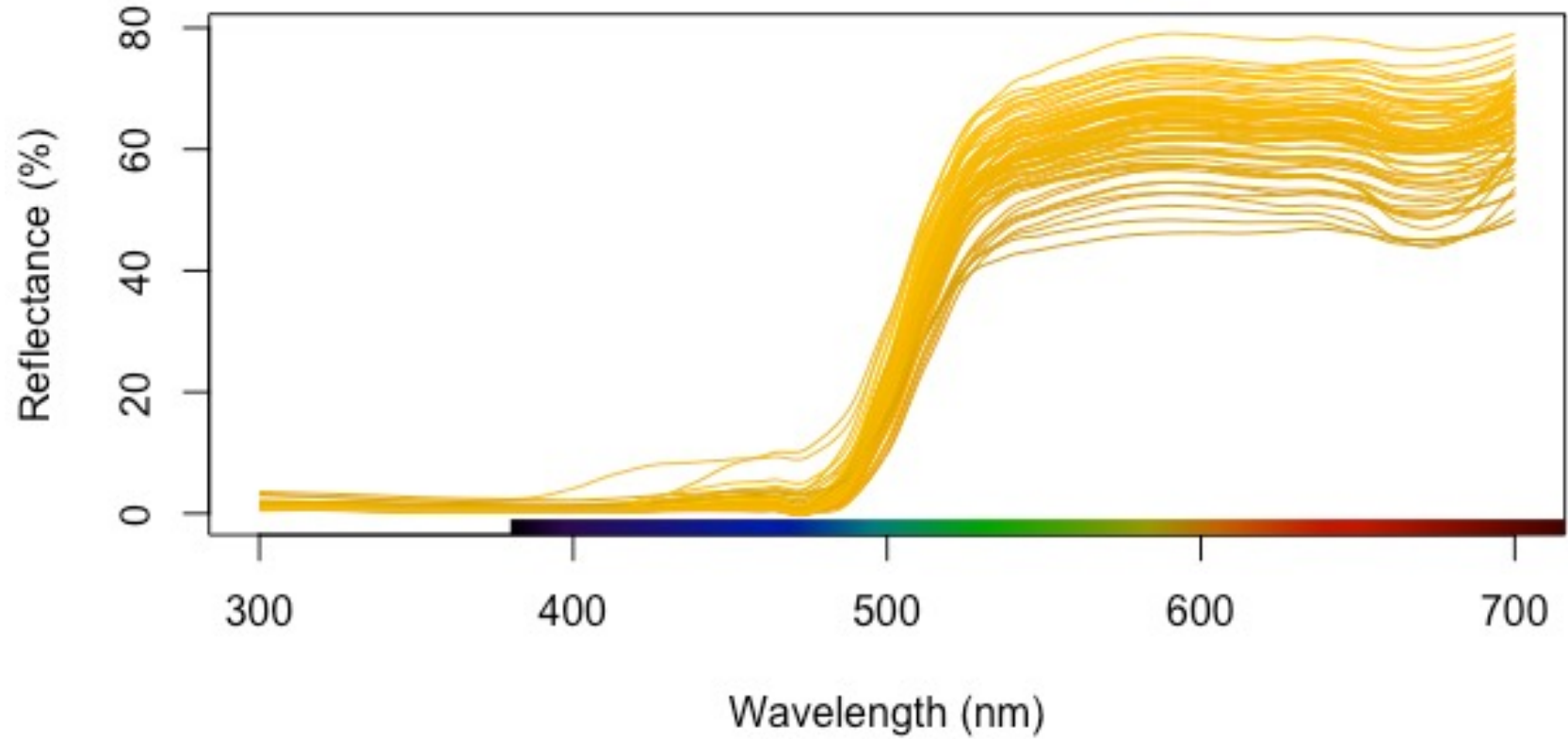
chrom\_contrast\_statistics

	mean	min	max	median	se
bees	0.2150154	0.1480230	0.3245983	0.2107281	0.003875049
butterflies	0.1664668	0.1277144	0.2171096	0.1668965	0.002156007
flies	0.3832219	0.2954922	0.4262957	0.3860214	0.002784095
beetles	0.1683142	0.08348161	0.3006958	0.1638617	0.004624106

achrom\_contrast\_statistics (green contrast)

	mean	min	max	median	se
bees	0.2688288	0.1062535	0.3736638	0.2706339	0.005670457

Transect 2 – Yellow zone (M2)



**chrom\_contrast\_statistics**

	mean	min	max	median	se
bees	0.5895665	0.3375292	0.6584455	0.6118102	0.007274972
butterflies	0.3553067	0.2668112	0.3844500	0.3620017	0.002403370
flies	0.5311218	0.3657965	0.5838927	0.5446262	0.004821671
beetles	0.2183017	0.1782587	0.2480847	0.2186271	0.001705122

**achrom\_contrast\_statistics (green contrast)**

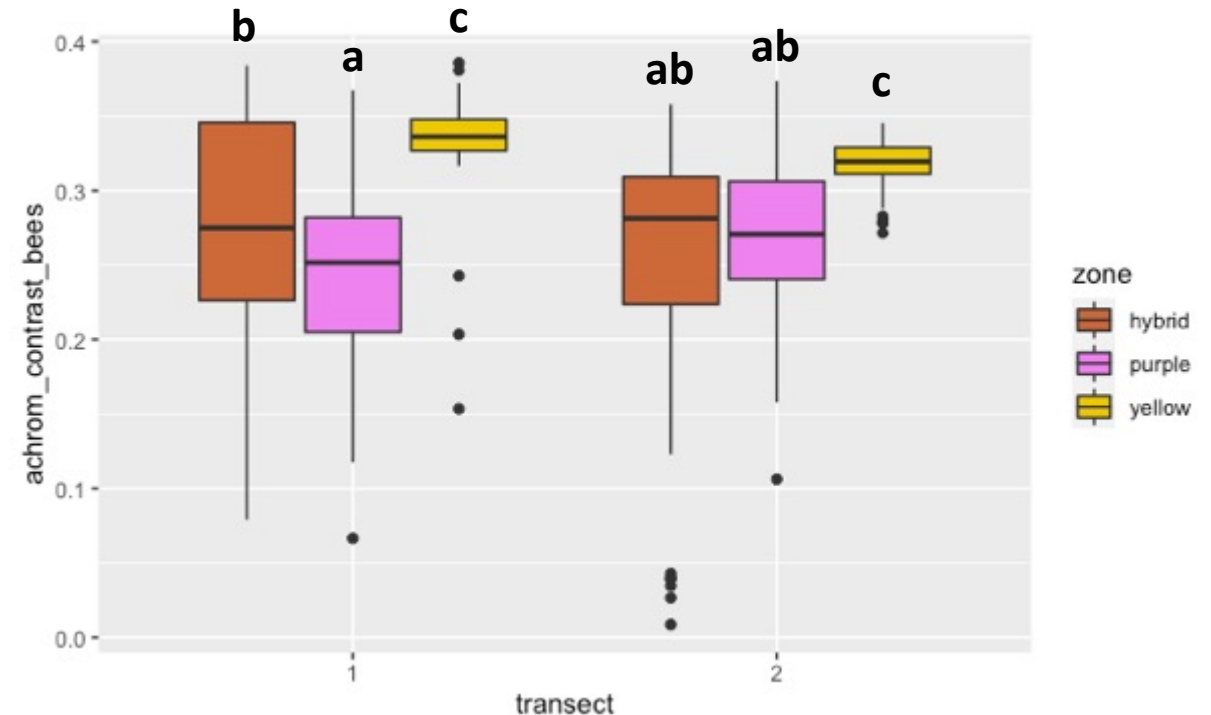
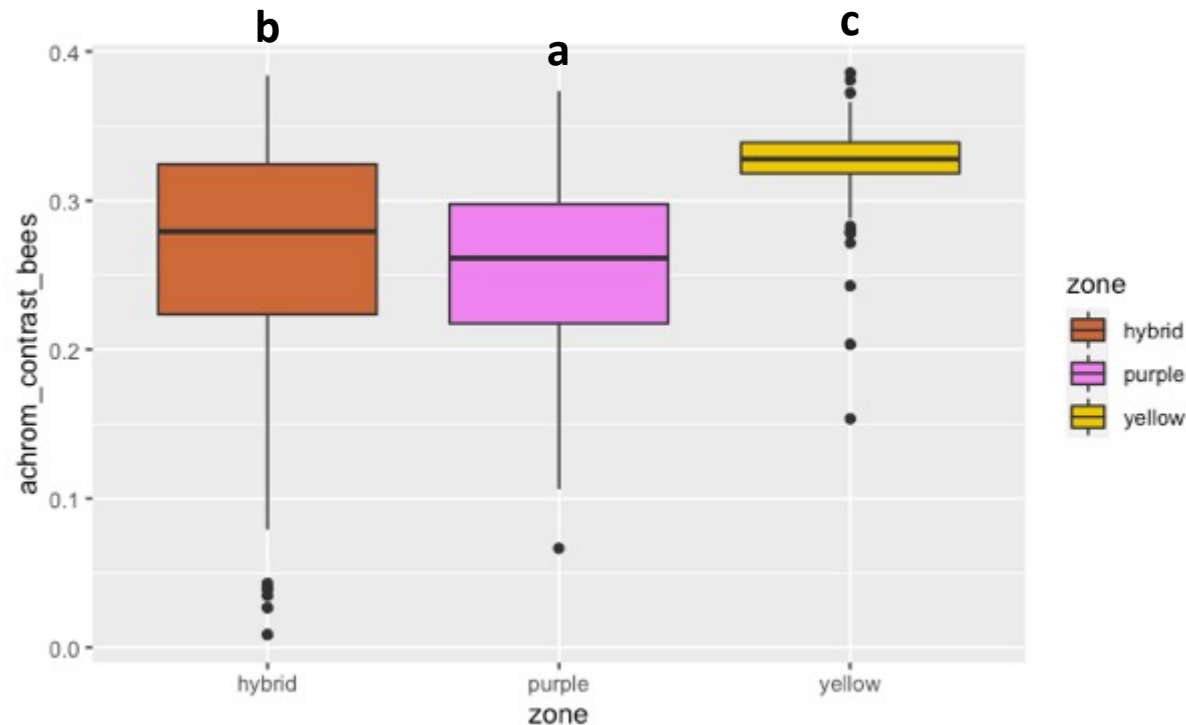
	mean	min	max	median	se
bees	0.3177443	0.2715757	0.3453163	0.319534	0.001959219

## Achromatic contrast (=green contrast) – just for bees!



```
aov_achrom <- aov(achrom_contrast_beets ~ transect*zone, data = achrom)
summary(aov_achrom)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# transect	1	0.0015	0.00147	0.449	0.5031
# zone	2	0.4529	0.22646	69.174	<2e-16 ***
# transect:zone	2	0.0521	0.02606	7.961	0.0004 ***
# Residuals	449	1.4699	0.00327		

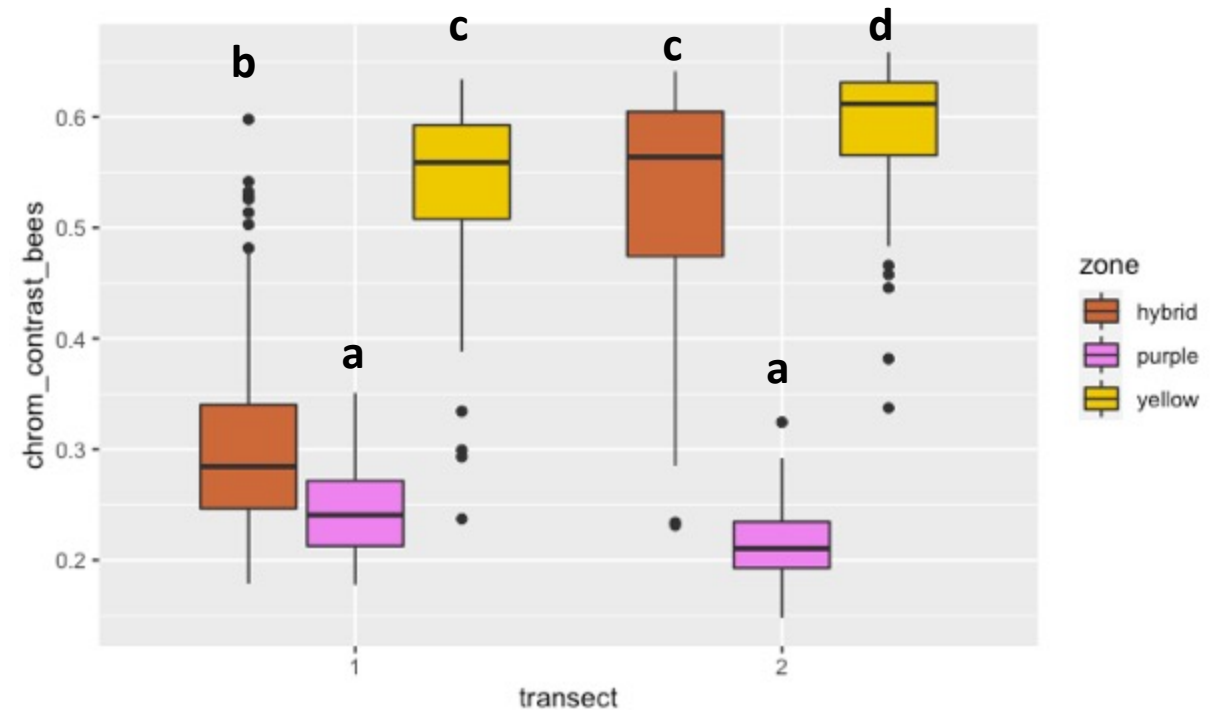
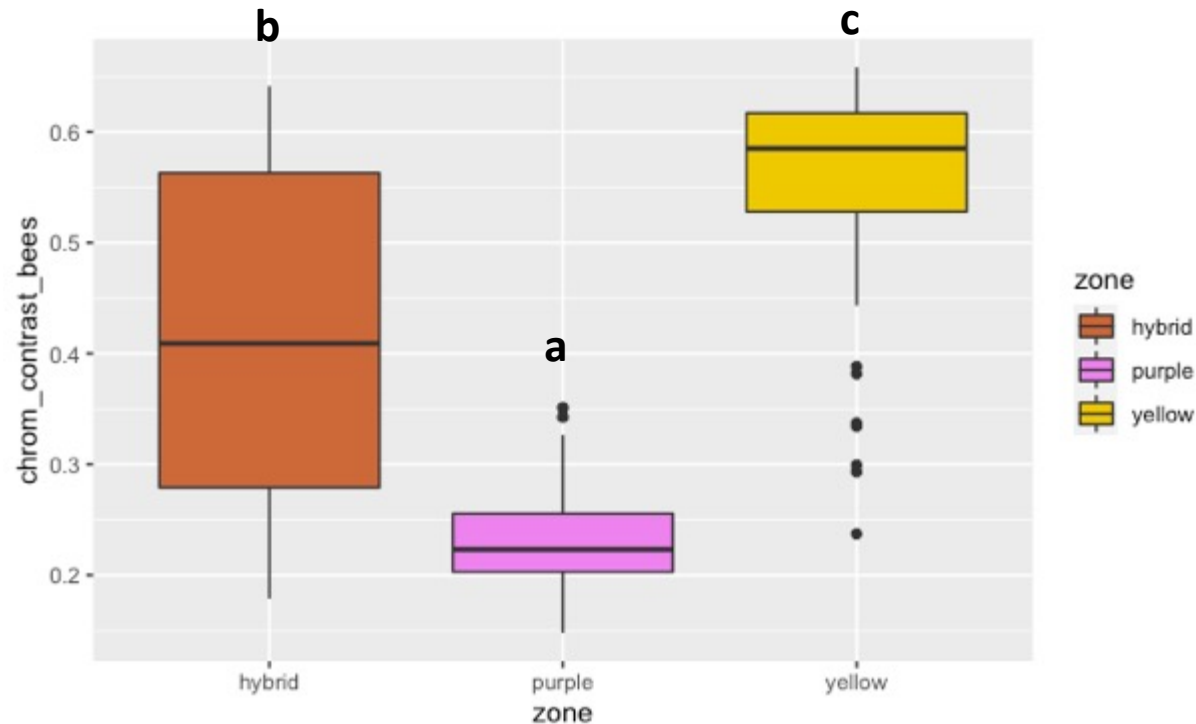


## Chromatic contrast (= distancia al centro) – bees



```
aov_chrom_beets <- aov(chrom_contrast_beets ~ transect*zone, data = chrom)
summary(aov_chrom_beets)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# transect	1	0.574	0.574	106.9	<2e-16 ***
# zone	2	8.699	4.349	809.8	<2e-16 ***
# transect:zone	2	1.146	0.573	106.7	<2e-16 ***
# Residuals	449	2.411	0.005		

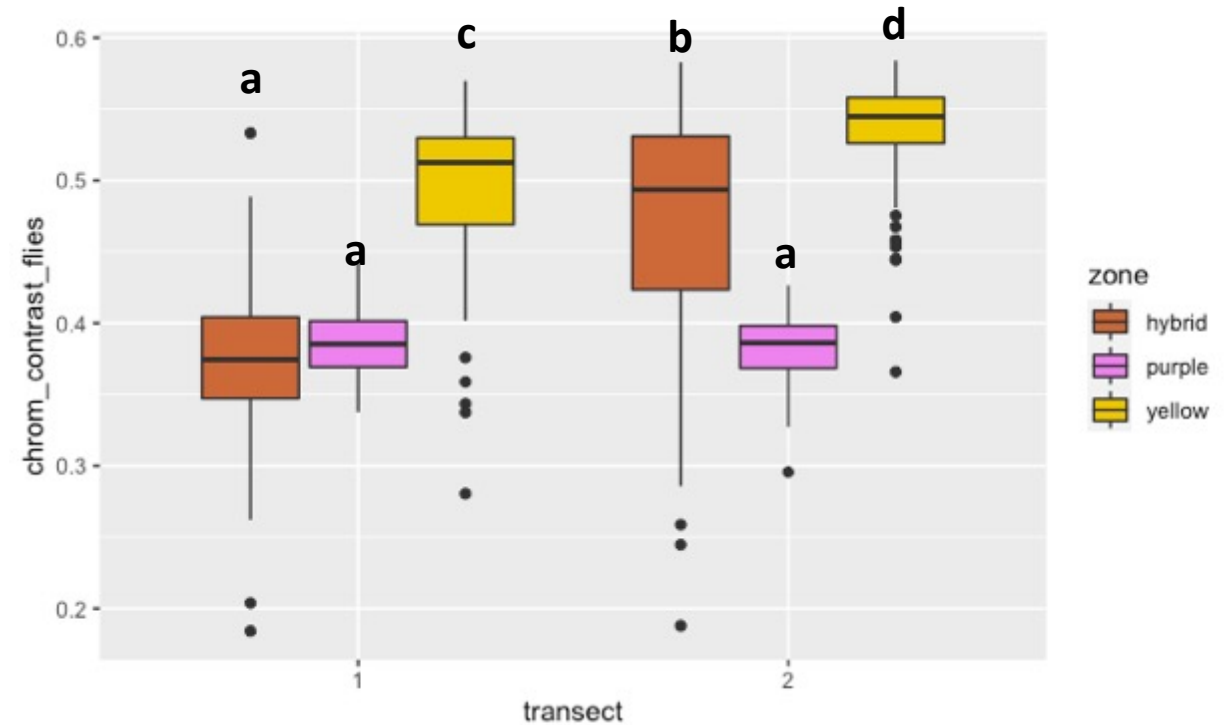
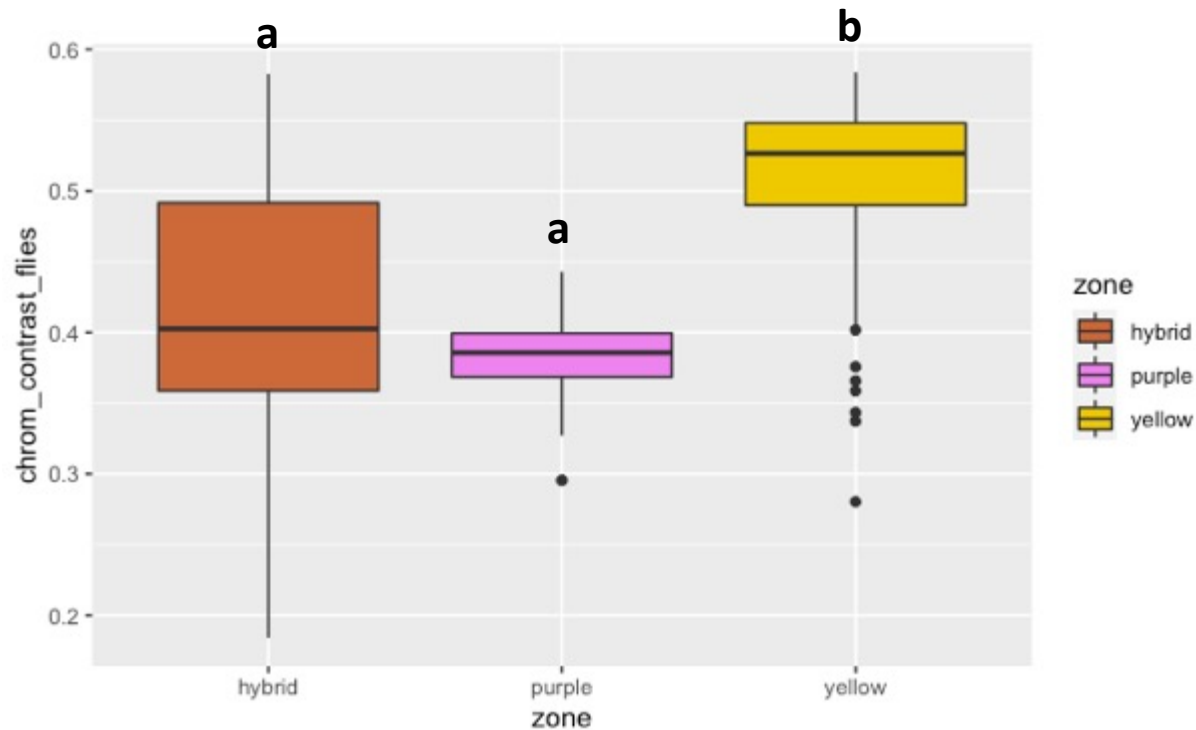


## Chromatic contrast (= distancia al centro) – flies



```
aov_chrom_flies <- aov(chrom_contrast_flies ~ transect*zone, data = chrom)
summary(aov_chrom_flies)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# transect	1	0.1828	0.1828	66.12	4.18e-15 ***
# zone	2	1.3183	0.6591	238.40	< 2e-16 ***
# transect:zone	2	0.1682	0.0841	30.43	4.06e-13 ***
# Residuals	449	1.2414	0.0028		

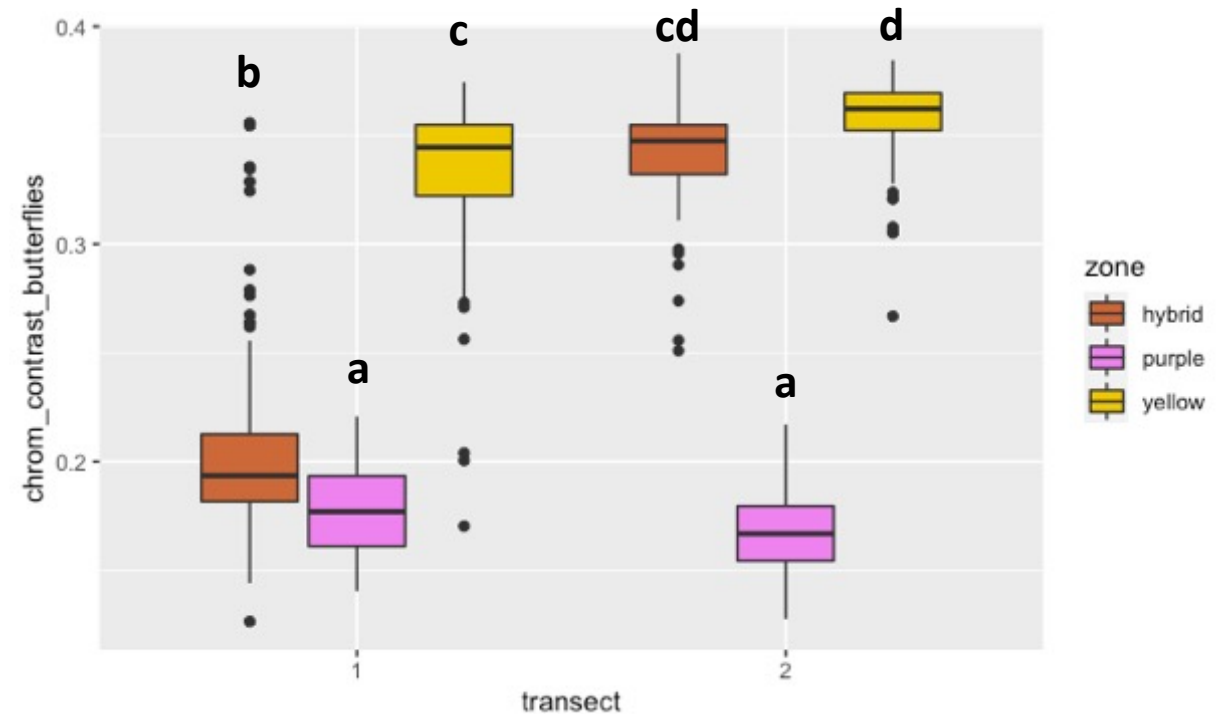
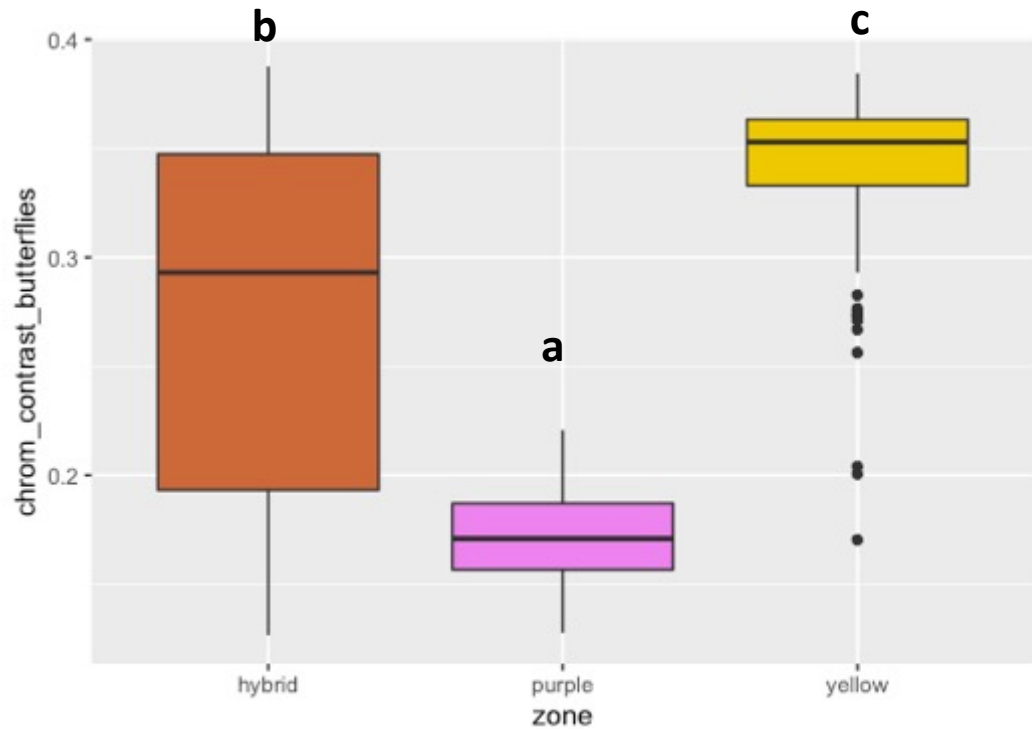


## Chromatic contrast (= distancia al centro) – butterflies



```
aov_chrom_butterflies <- aov(chrom_contrast_butterflies ~ transect*zone, data = chrom)
summary(aov_chrom_butterflies)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# transect	1	0.2240	0.2240	220.8	<2e-16 ***
# zone	2	2.3162	1.1581	1141.2	<2e-16 ***
# transect:zone	2	0.4027	0.2013	198.4	<2e-16 ***
# Residuals	449	0.4557	0.0010		



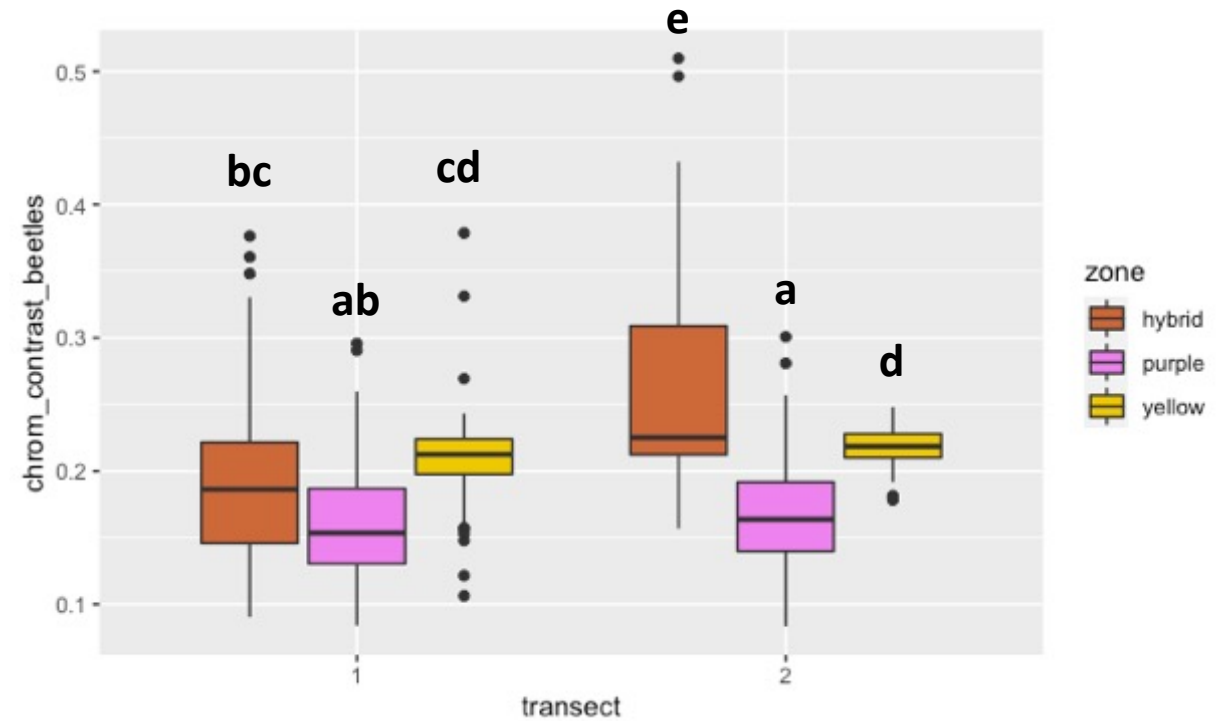
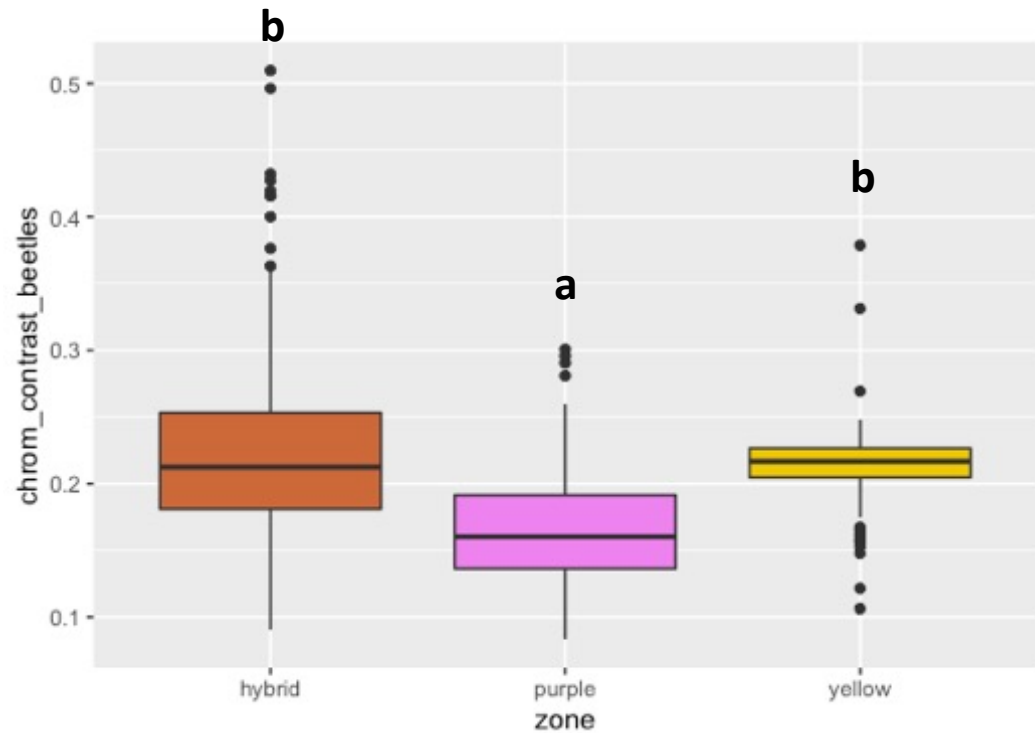


## Chromatic contrast (= distancia al centro) – beetles



```
aov_chrom_beetles <- aov(chrom_contrast_beetles ~ transect*zone, data = chrom)
summary(aov_chrom_beetles)
```

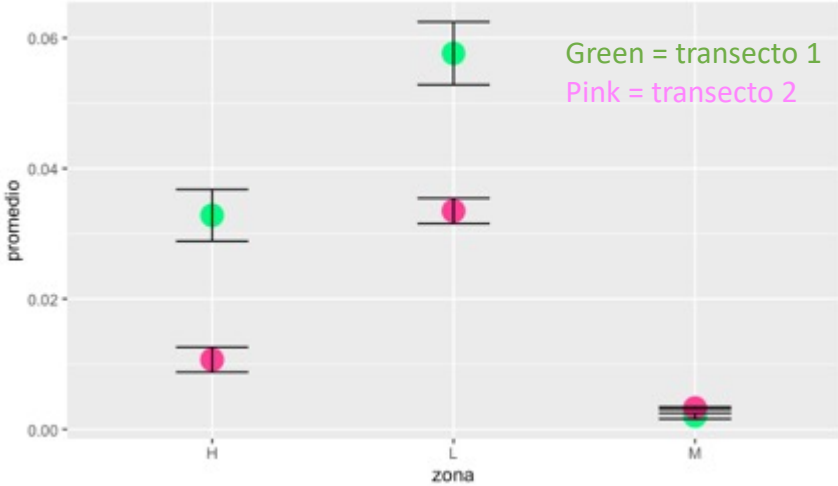
#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# transect	1	0.0857	0.08566	33.16	1.58e-08 ***
# zone	2	0.3126	0.15632	60.52	< 2e-16 ***
# transect:zone	2	0.1076	0.05382	20.84	2.22e-09 ***
# Residuals	449	1.1598	0.00258		



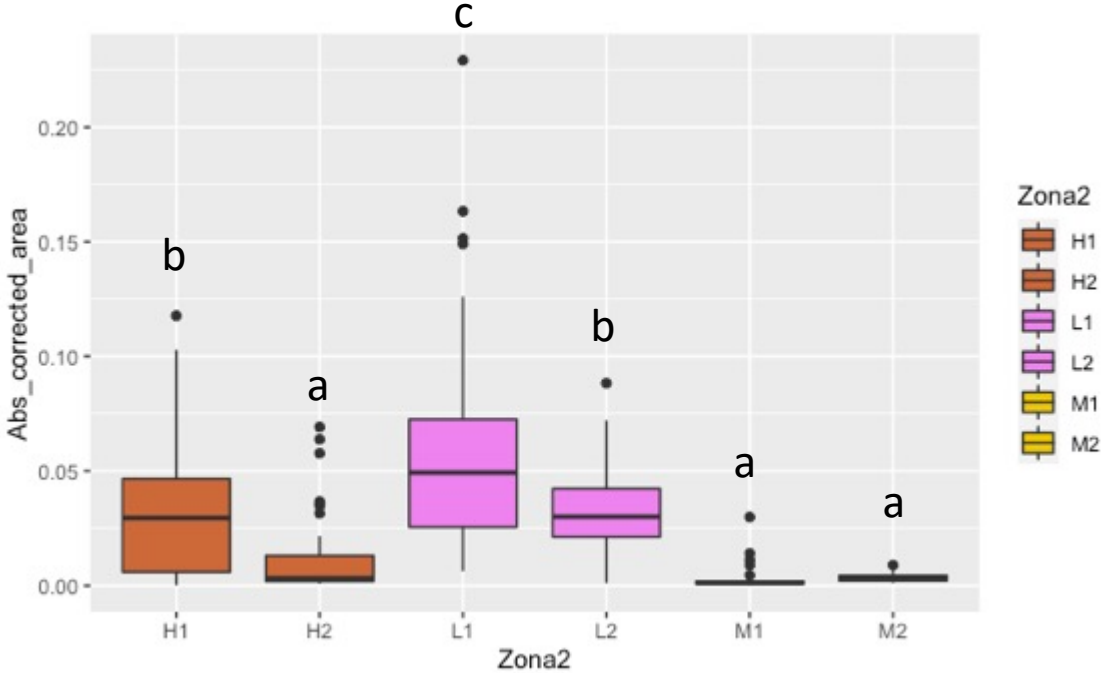
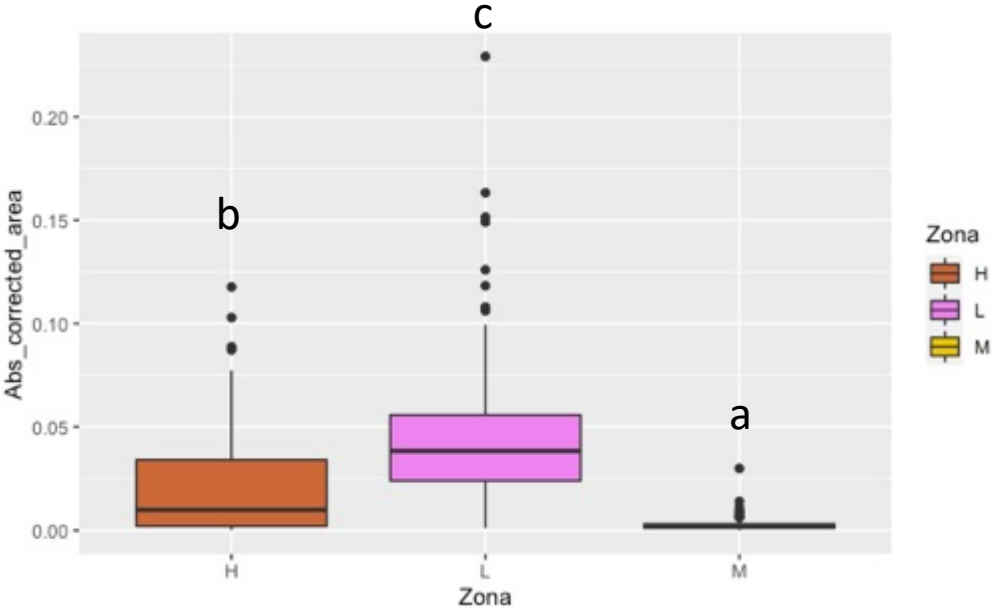
Absorbances → anthocyanins (samples in methanol)

```
aov_abs <- aov(Abs_corrected_area ~ Transecto*Zona, data = absorbances)
summary(aov_abs)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# Transecto	1	0.02017	0.02017	43.28	1.45e-10 ***
# Zona	2	0.13689	0.06845	146.91	< 2e-16 ***
# Transecto:Zona	2	0.01467	0.00734	15.74	2.58e-07 ***
# Residuals	410	0.19102	0.00047		



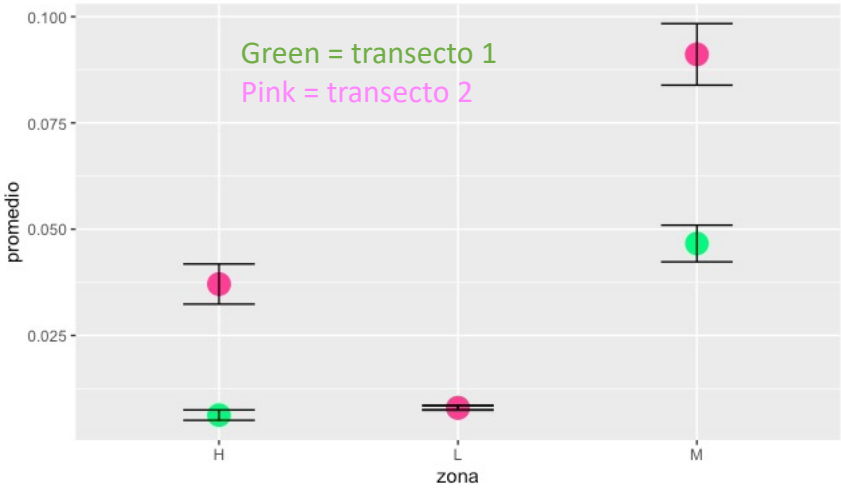
//



Absorbances → carotenoids (samples in acetone)

```
aov_car <- aov(Abs_corrected_area ~ Transecto*Zona, data = carot)
summary(aov_car)
```

#	Df	Sum Sq	Mean Sq	F value	Pr(>F)
# Transecto	1	0.0658	0.06582	50.41	5.56e-12 ***
# Zona	2	0.3015	0.15074	115.45	< 2e-16 ***
# Transecto:Zona	2	0.0383	0.01914	14.66	7.08e-07 ***
# Residuals	409	0.5340	0.00131		



//

