| | 1985 | | | | | 2019 | | | | |
| | key_spp. | | N/A | | | key_spp. | | N/A | | |
Spp.	RF	HG	RF	HG	Av.1985	HG	RF	HG	RF	Av.2019
AAGA			32.70	14.78	**18.70**			15.34	18.83	**16.26**
ACER	40.73	24.38			**56.19**	27.00	19.62			**21.67**
AFRA								11.50	9.00	**10.25**
AHUM									13.33	**13.33**
ALAM									10.00	**10.00**
APAL	118.59				**71.93**		90.00			**90.00**
APRO							220.00			**220.00**
ATEN			47.71		**49.98**			28.07	21.66	**24.01**
CNAT						90.00	20.00			**66.67**
DLAB		37.68			**37.68**	38.00				**38.00**
DSTO				11.64	**11.64**			12.75	15.00	**13.20**
FFRA									5.00	**5.00**
HCUC								17.00		**17.00**
IRIG			13.30	16.63	**14.96**			11.67		**11.67**
MCAV		27.23			**26.75**	25.10	9.00	35.00		**24.99**
MLAM								20.00		**20.00**
MMEA				15.52	**15.52**			39.00	10.00	**29.33**
OANN	53.20*	54.41*			**45.65***	18.00				**18.00**
OFAV						47.30	18.00			**45.90**
PAST			27.71	11.88	**18.68**			12.23	16.81	**15.78**
PDIV								8.00	6.67	**7.00**
PFUR								30.00	13.17	**15.57**
PPOR				13.30	**30.59**			29.46	17.23	**23.90**
PSTR						27.94	19.00			**26.79**
SBOU			19.95		**19.95**			11.25	8.00	**10.60**
SINT				6.65	**6.65**			11.53	18.43	**14.86**
SRAD			51.54	6.65	**31.59**			5.00	10.56	**10.00**
SSID	63.18	19.95			**26.60**	16.43	20.01			**17.73**
Dcli				38.24	**31.92**					
Dcyl				39.90	**39.90**					
Dstr		21.06			**33.85**					
Ffra					**3.33**					
Mdec					**7.76**					
Average	**82.60**	**32.25**	**39.47**	**16.93**	**42.05**	**23.93**	**22.43**	**16.82**	**17.19**	**18.60**

(*) Diameters are referred to *Montrastrea annularis* spp. complex.

(A) Coral colony maximum diameters densities by morphologies and accretion impact sorted by geomorphic zone at Punta Maroma reef in 1985 and 2019**.** Bran: Branching, Digi: Digitate or digitiformes, Foli: Foliaceus or platy, Mass: massive, submass_enc: submassive or encrusting forms; RF: Reef front or accretionary zone, HG: Coral hard ground or non-accretionary zone.
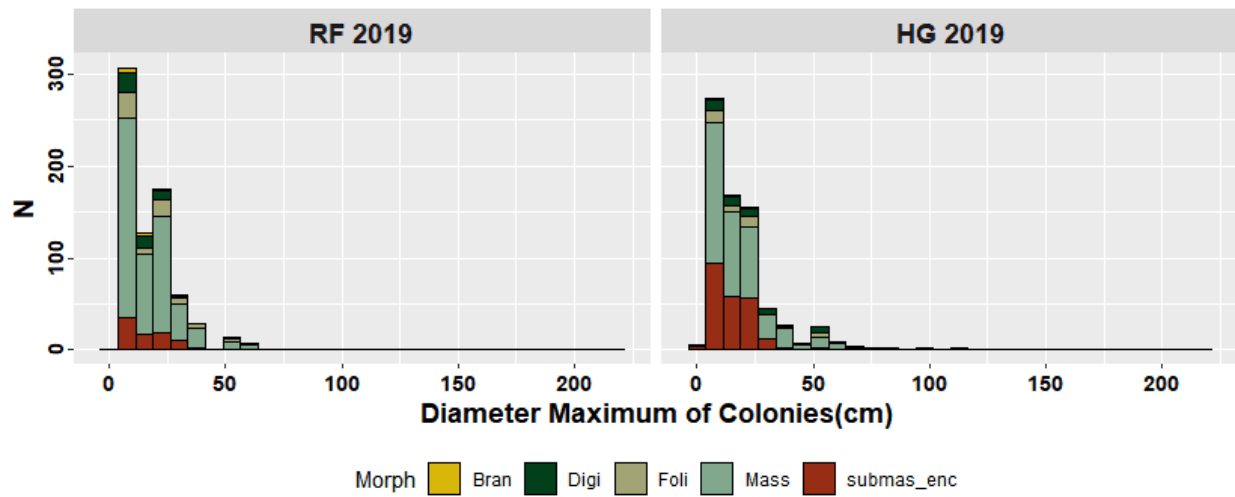
(B). Coral colony densities by morphologies and by geomorphic zone at Punta Maroma reef in 2019. Bran: Branching, Digi: Digitate or digitiformes, Foli: Foliaceus or platy, Mass: massive, submass_enc: submassive or encrusting forms; RF: Reef front or accretionary zone, HG: Coral hard ground or non-accretionary zone.

PERMDISP
Distance-based test for homogeneity of multivariate dispersions on Jaccard Similarity m

Name: jaccard
Data type: Similarity
Selection: All
Transform: Presence/absence
Resemblance: S7 Jaccard

Group factor: Temporal
Number of permutations: 9999

Number of groups: 4
Number of samples: 38

DEVIATIONS FROM CENTROID
F: 4.4716 df1: 3 df2: 34
P(perm): 0.0213

PAIRWISE COMPARISONS
```
Groups                                    t  P(perm)
(RF_before 1990,HG_before 1990)       1.863   0.1039
(RF_before 1990,HG_2019)             1.4109   0.1905
(RF_before 1990,RF_2019)            0.96334   0.3814
(HG_before 1990,HG_2019)             4.3492   0.0006
(HG_before 1990,RF_2019)            0.92391   0.4239
(HG_2019,RF_2019)                    2.8027    0.013
```

MEANS AND STANDARD ERRORS
```
Group            Size  Average      SE
RF_before 1990      9   34.605  3.5082
HG_before 1990      9   42.723  2.5849
HG_2019            10   29.194  1.8201
RF_2019            10   39.025  2.9985
```

PERMANOVA results

Source	df	SS	MS	Pseudo-F	P(perm)	perms	P(MC)
Year	2	30442	15221	15.38	0.0001	9918	0.0001
C1 (1979)v(1985)	1	2885.6	2885.6	2.1232	0.0425	9942	0.0705
C2 (1979,1985)v(2019)	1	27556	27556	25.91	0.0001	9931	0.0001
Zone	1	18470	18470	18.662	0.0001	9941	0.0001
YearxZone	2	6613.8	3306.9	3.3414	0.0001	9926	0.0003
C1xZone	1	1605.1	1605.1	1.181	0.3362	9921	0.3309
C2xZone	1	5008.6	5008.6	4.7095	0.0001	9951	0.0002
Res	32	31669	989.66				
Total	37	85382					

PAIR-WISE TESTS

Term 'Year x Zone' for pairs of levels of factor 'Zone'

Within level '1979' of factor 'Year'

```
                           Unique
Groups        t    P(perm)   perms   P(MC)
RF, HG  2.9509    0.0083       126   0.0008
```
Average Similarity between/within groups
```
        RF       HG
RF 64.12
HG 21.49   40.977
```

Within level '1985' of factor 'Year'
```
                           Unique
Groups        t    P(perm)   perms   P(MC)
RF, HG  2.1159    0.0288        35   0.0198
```
Average Similarity between/within groups
```
        RF       HG
RF 43.257
HG 25.607   51.182
```

Within level '2019' of factor 'Year'
```
                           Unique
Groups        t    P(perm)   perms   P(MC)
RF, HG  2.8437    0.0001      9426   0.0003
```
Average Similarity between/within groups
```
        RF       HG
RF 58.352
HG 52.591   70.702
```

PERMDISP

PAIRWISE COMPARISONS

Groups	t	P(perm)
(RF_before 1990,HG_before 1990)	1.5525	0.1822
(RF_before 1990,HG_2019)	2.6637	0.0147
(RF_before 1990,RF_2019)	0.59302	0.5981
(HG_before 1990,HG_2019)	5.9682	0.0001
(HG_before 1990,RF_2019)	2.4735	0.0365
(HG_2019,RF_2019)	2.2626	0.0454

MEANS AND STANDARD ERRORS

Group	Size	Average	SE
RF_before 1990	9	30.692	4.0483
HG_before 1990	9	38.395	2.8688
HG_2019	10	19.662	1.4937
RF_2019	10	27.661	3.2042