

Coral reef assessments based on cover alone mask active dynamics of coral communities

Marlene Brito-Millán*, Mark J. A. Vermeij, Esmeralda A. Alcantar, Stuart A. Sandin

*Corresponding author: mbritomillan@gmail.com

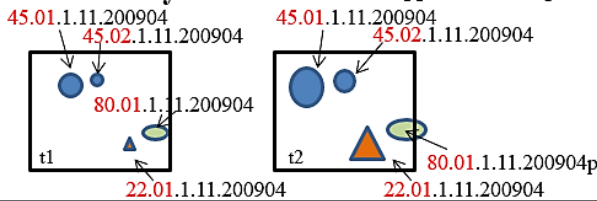
Marine Ecology Progress Series 630: 55–68 (2019)

Supplement 1

Figure S1: Naming scheme for tracking colony change. The unique alpha-numeric naming scheme developed to track coral colony demographic unit change, including histories of fission and fusion.

Colony naming Guide

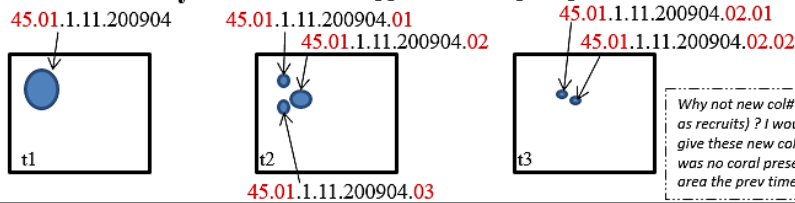
Basic colony name scheme: spp#code.col#.plot.quad.firsttimeobsv



How do I track cut-off colonies? Add a small p at the end of the name. "Partial Colonies" include those that eventually grow out of the frame, those that grow into the frame, and those suddenly captured because of "bad" quadrat orientation. The colony ONLY needs this 'p' tag for the timepoint in which it is cut-off.

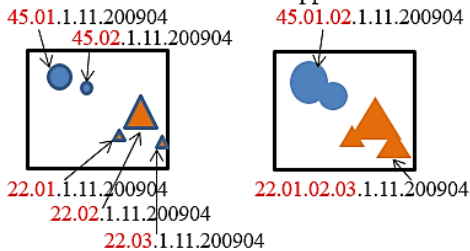
The plot number is the only number that will ALWAYS be a single digit!

When a colony subdivides: spp#code.col#.plot.quad.firsttimeobsv.subcol#



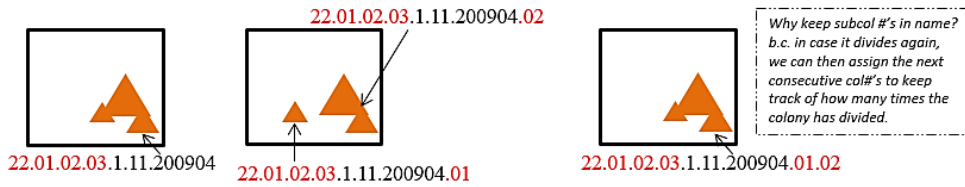
Why not new col#'s (count as recruits)? I would only give these new col#'s if there was no coral present in this area the prev timept.

When colonies fuse: spp#code.col#.col#.col#.plot.quad.firsttimeobsv

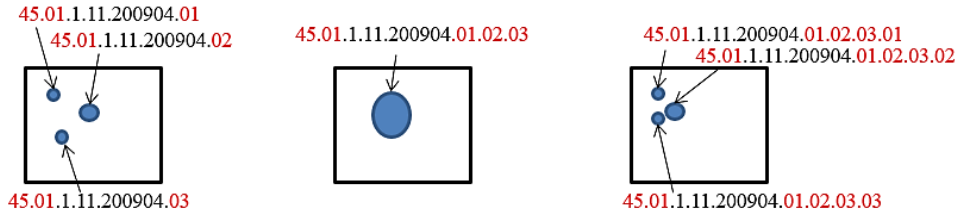


What about when col.s with different 'firsttimeobsv' fuse? Use only the oldest 'firsttimeobsv' in the name.

Special Case When fused colonies subdivide: spp#code.col#.col#.plot.quad.firsttimeobsv.subcol#

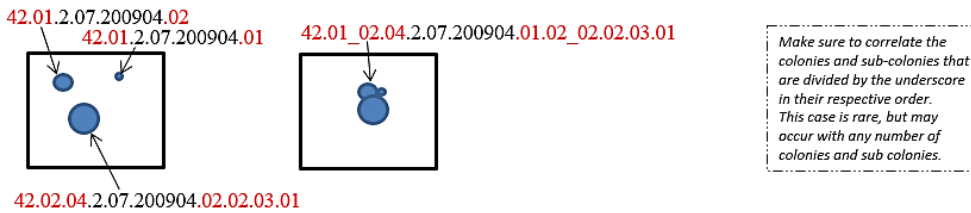


Special Case When subdivided colonies fuse: spp#code.col#.col#.plot.quad.firsttimeobsv.subcol#.subcol#



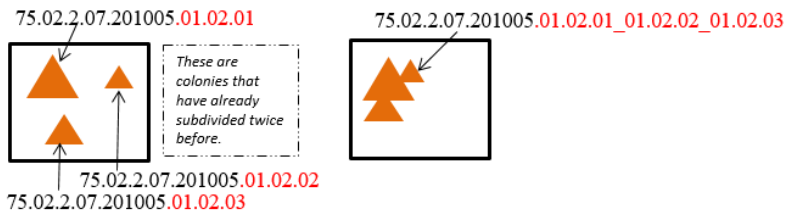
Special Case When multiple colonies with multiple sub-colonies fuse:

spp#code.col#_col#.plot.quad.firsttimeobsv.subcol#_subcol#_subcol#subcol#

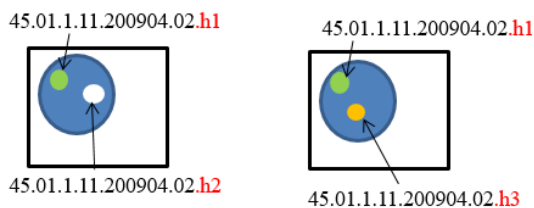


Special Case When the same colony subdivides and fuses multiple times:

spp#code.col#.plot.quad.firsttimeobsv.subcol#_subcol#_subcol#



Basic Hole Name Scheme: entirecolonyname.h#



What if the hole pertains to a partial colony? Place hole tag after colony name. For matching purposes, hole names should always match the name of the colony they are inside of, except for the 'h' tag. E.g. 45.01.1.11200904.02p.h1

What should I do if holes merge? Combine both hole names at the end of the name in the same way as in the subcolony special case above. E.g. 45.01.1.11200904.02.h1.h2