

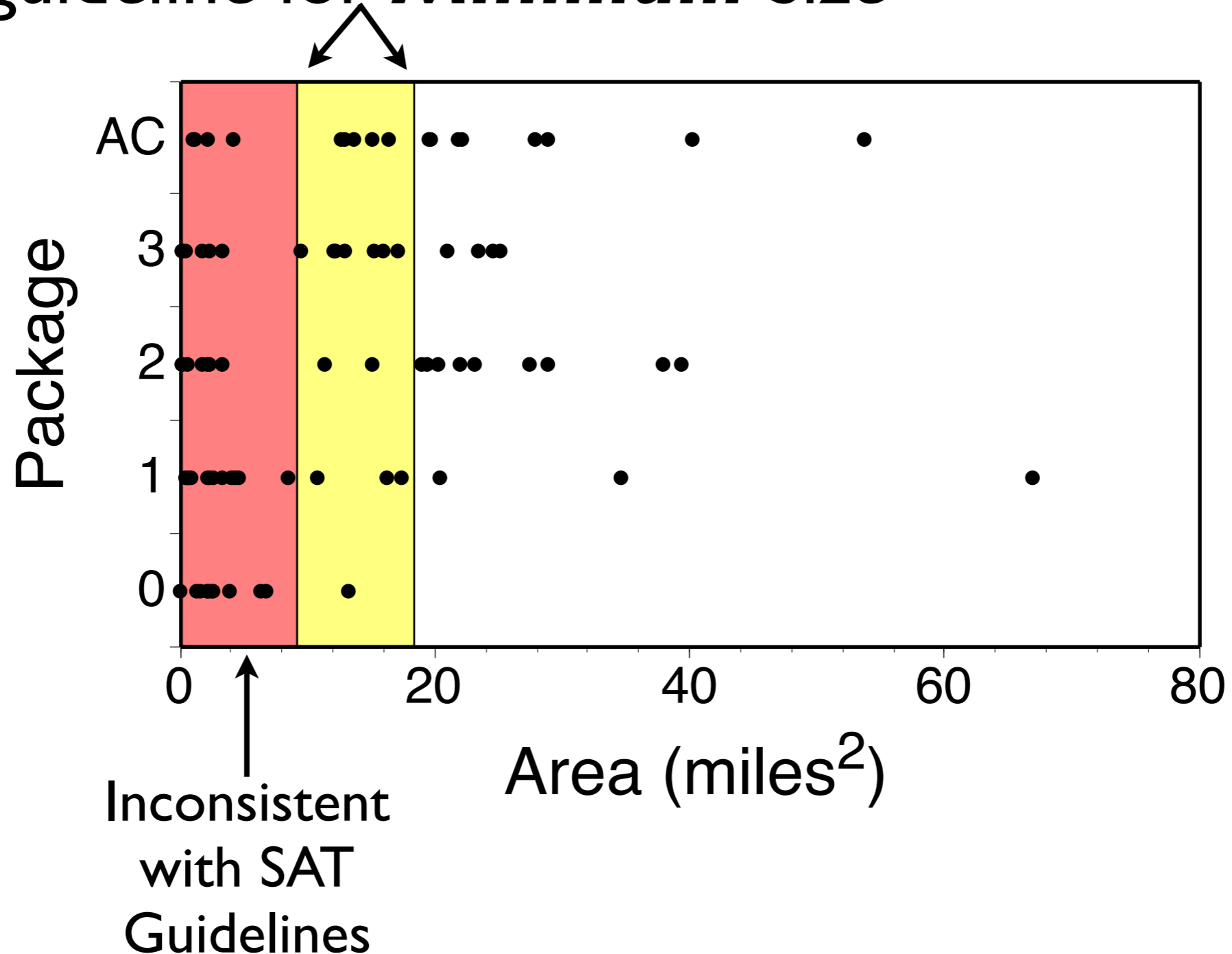
**Draft Summary Evaluation of
MLPA Goals 2 and 6 on the
Size and Spacing of MPAs in Proposed
Packages 0, 1, 2, 3 and AC for the
MLPA Central Coast Project**

Presented by Dr. Steve Gaines
University of California, Santa Barbara
Member, MLPA Master Plan Science Advisory Team

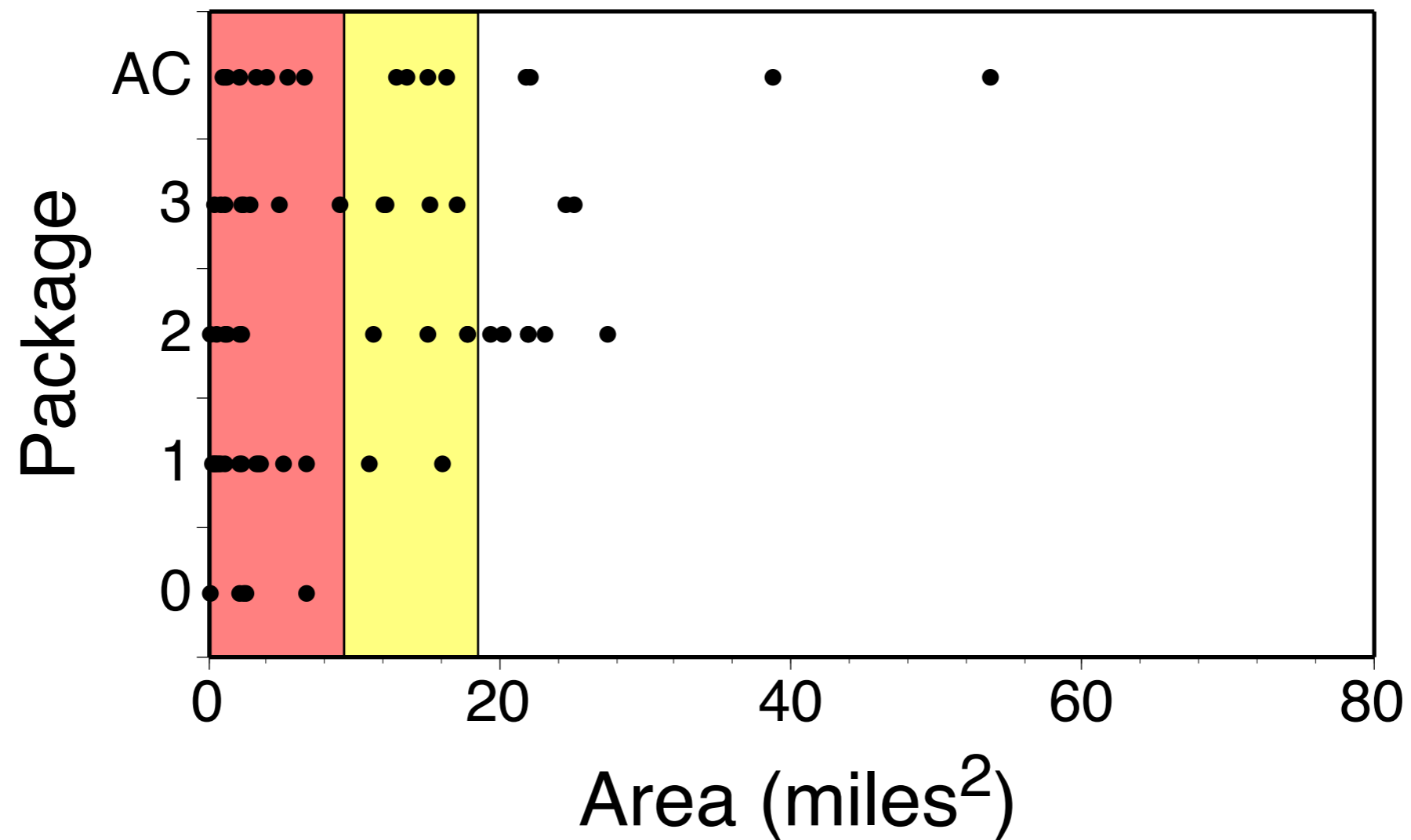
January 20, 2006

MPA Sizes: Cluster Areas

SAT guideline for **Minimum Size**



MPA Sizes: High Protection Cluster Areas



MPA Sizes: Cluster Areas

Pkg	# of MPA Clusters	Below Minimum	At Minimum	Above Minimum
0	11	91%	9%	
1	19	68%	16%	16%
2	18	44%	11%	44%
3	17	41%	35%	24%
AC	17	24%	35%	41%

MPA Sizes:

High Protection Cluster Areas

Pkg	# of MPA Clusters	Below Minimum	At Minimum	Above Minimum
0	5	100%		
1	16	81%	6%	13%
2	16	37.5%	25%	37.5%
3	14	43%	36%	21%
AC	16	44%	25%	31%

MPA Sizes: Cluster Lengths

Pkg	# of MPA Clusters	Below Minimum	At Minimum	Above Minimum
0	11	55%	33%	22%
1	17	18%	53%	29%
2	17	12%	18%	70%
3	15	7%	27%	66%
AC	18	17%	22%	61%

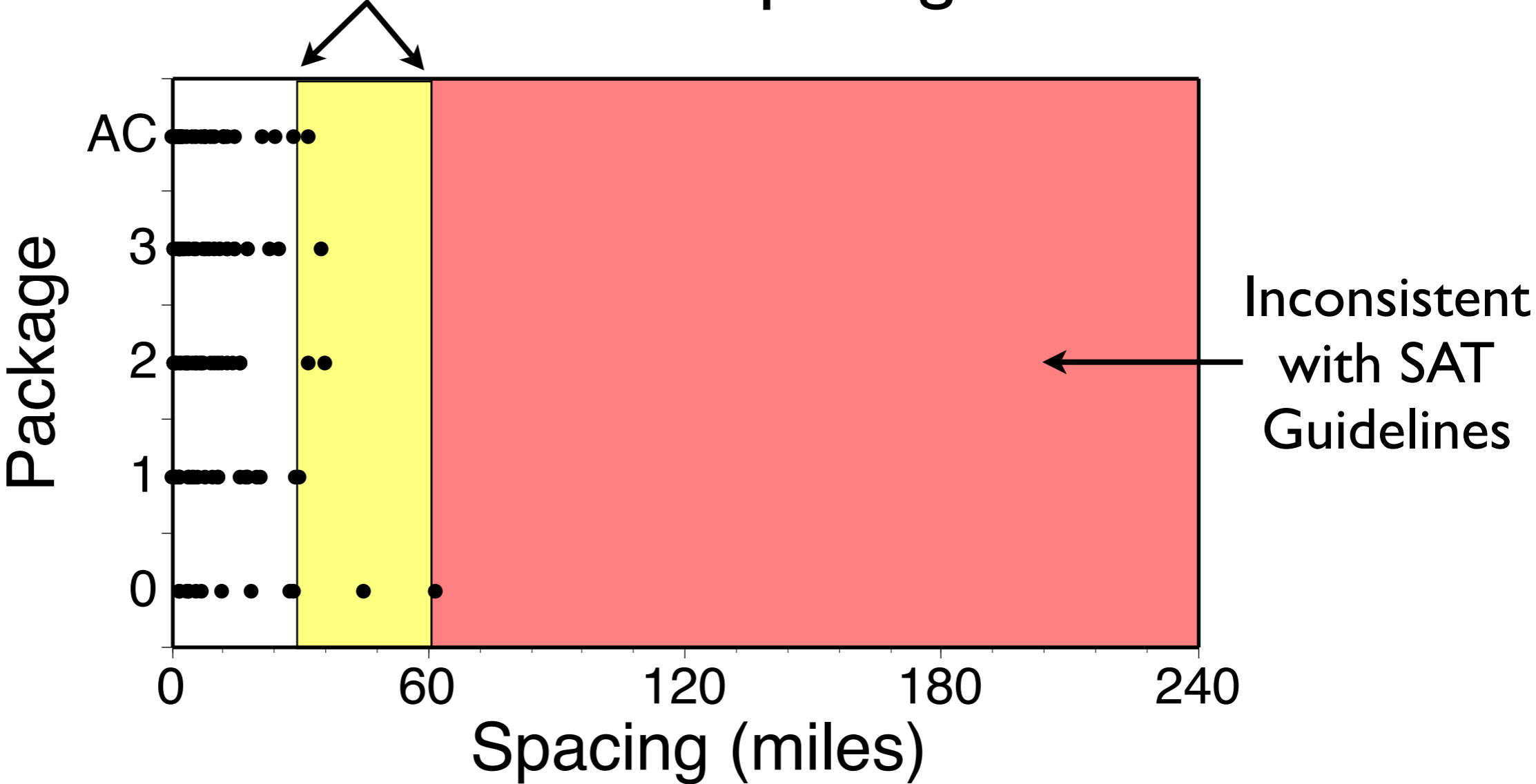
MPA Sizes:

High Protection Cluster Lengths

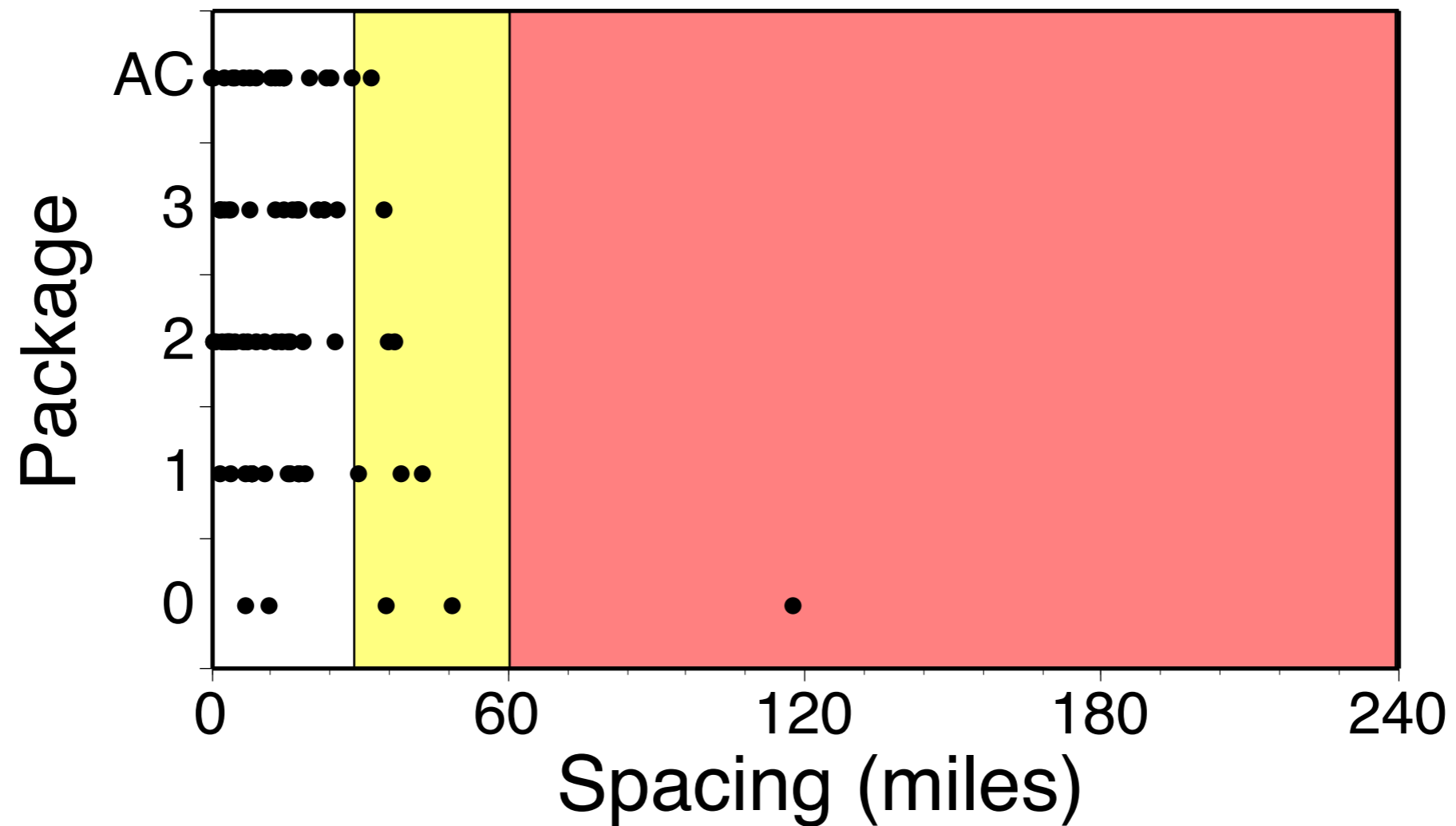
Pkg	# of MPA Clusters	Below Minimum	At Minimum	Above Minimum
0	5	60%	20%	20%
1	14	21%	58%	21%
2	17	24%	29%	47%
3	15	27%	33%	40%
AC	17	18%	29%	53%

Spacing - All MPAs

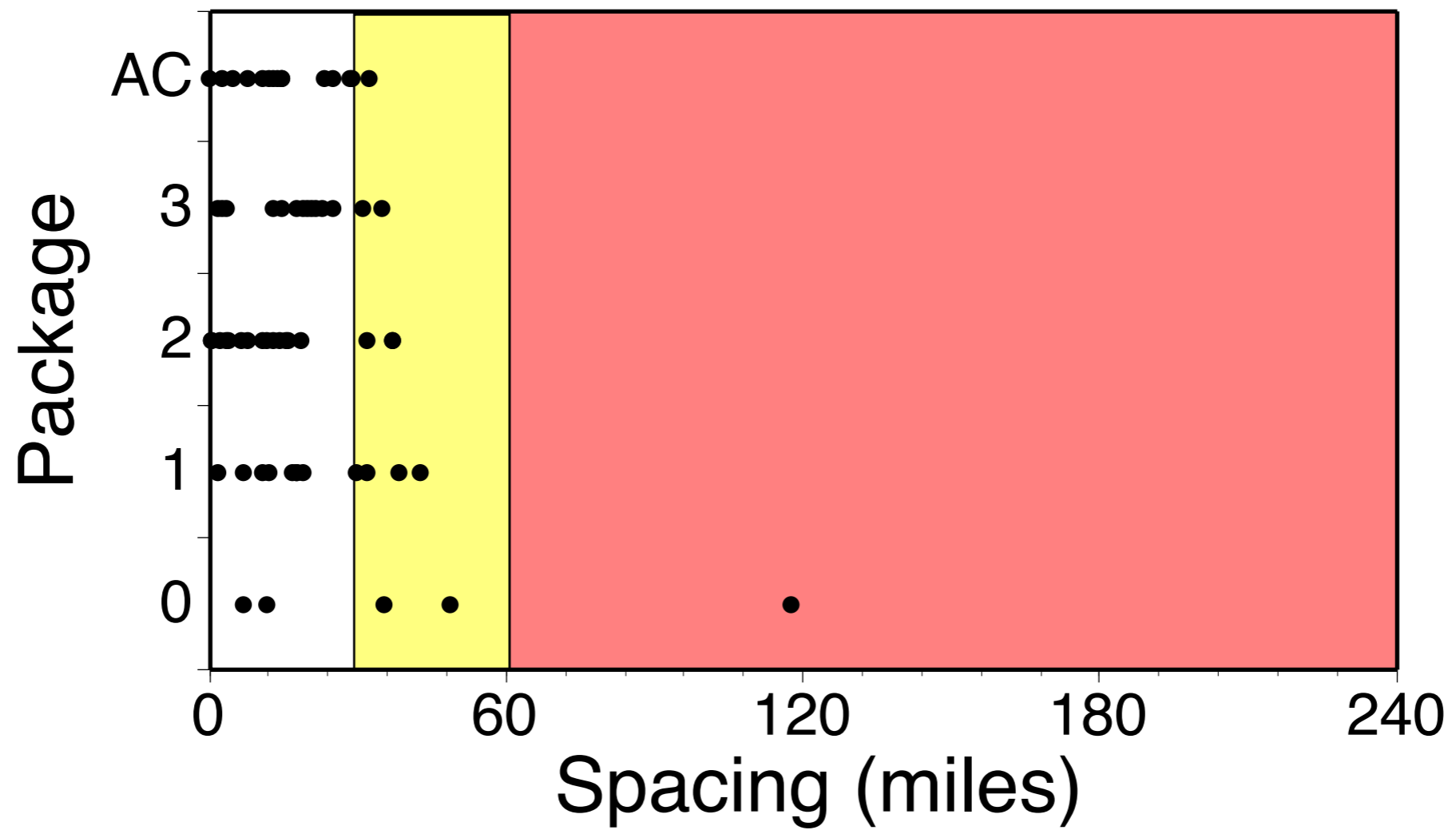
SAT guideline for **Maximum** Spacing



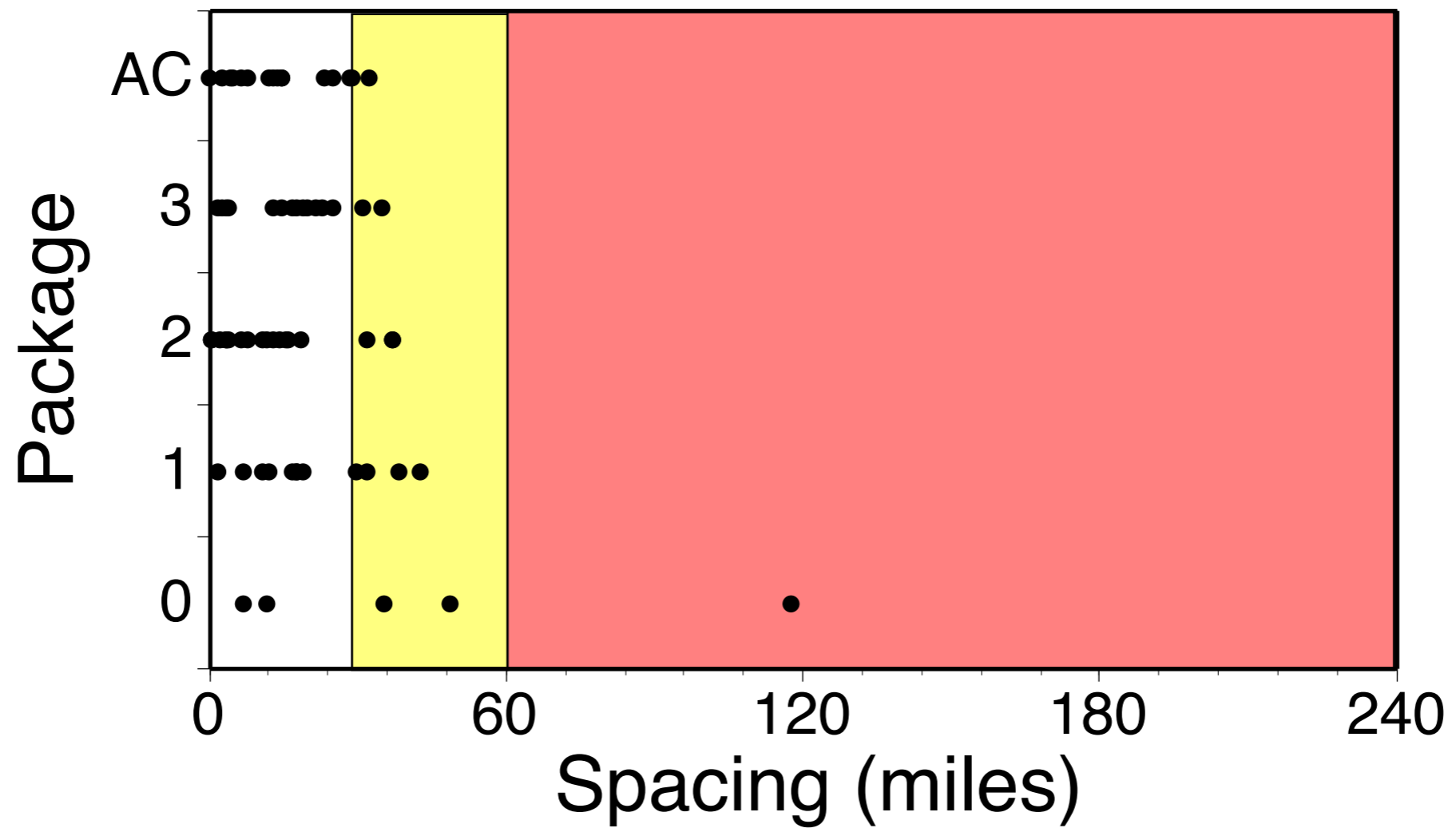
High Protection MPAs Only



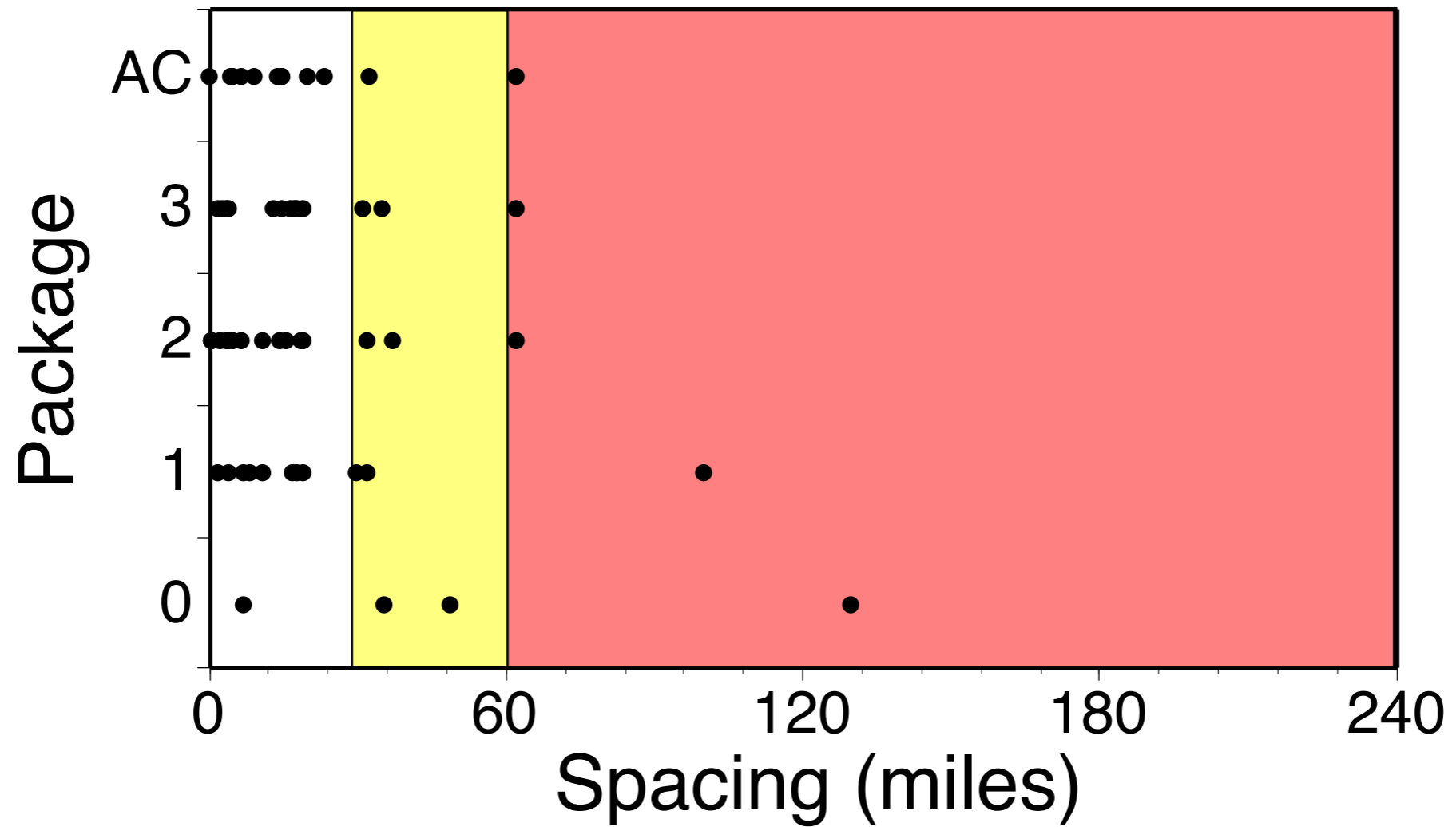
Sandy Beaches



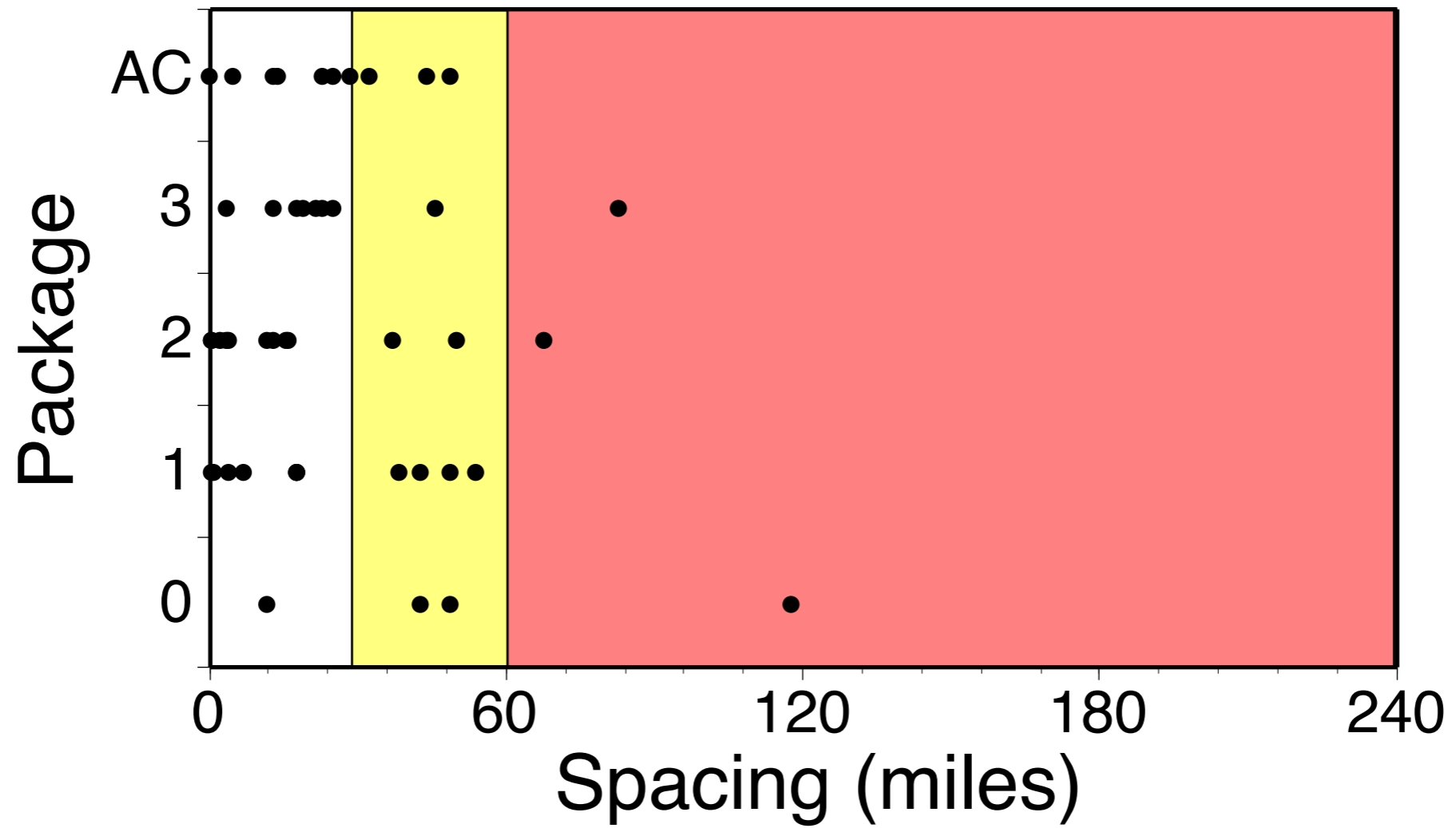
Rocky Intertidal



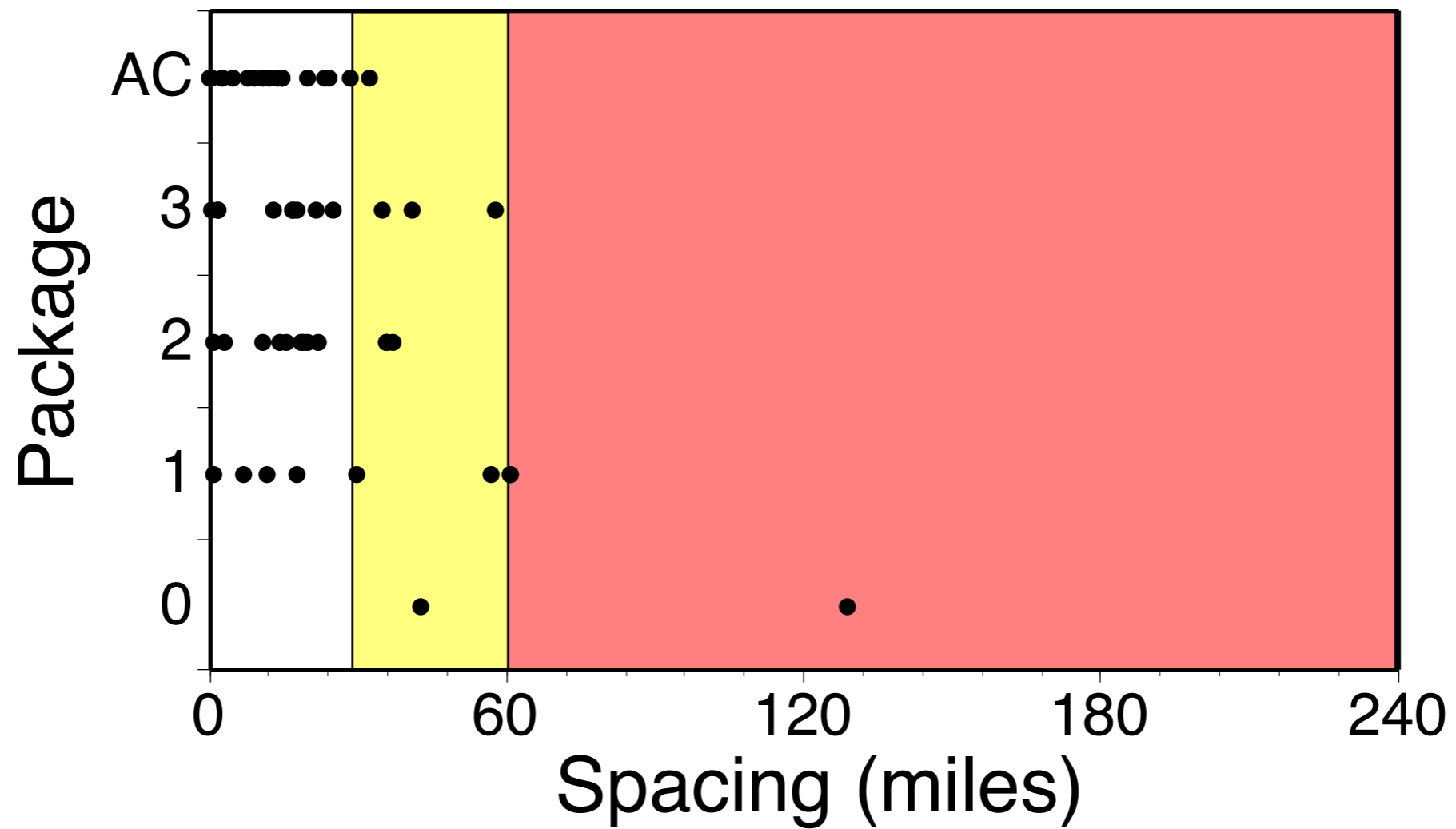
Seagrass/Eelgrass



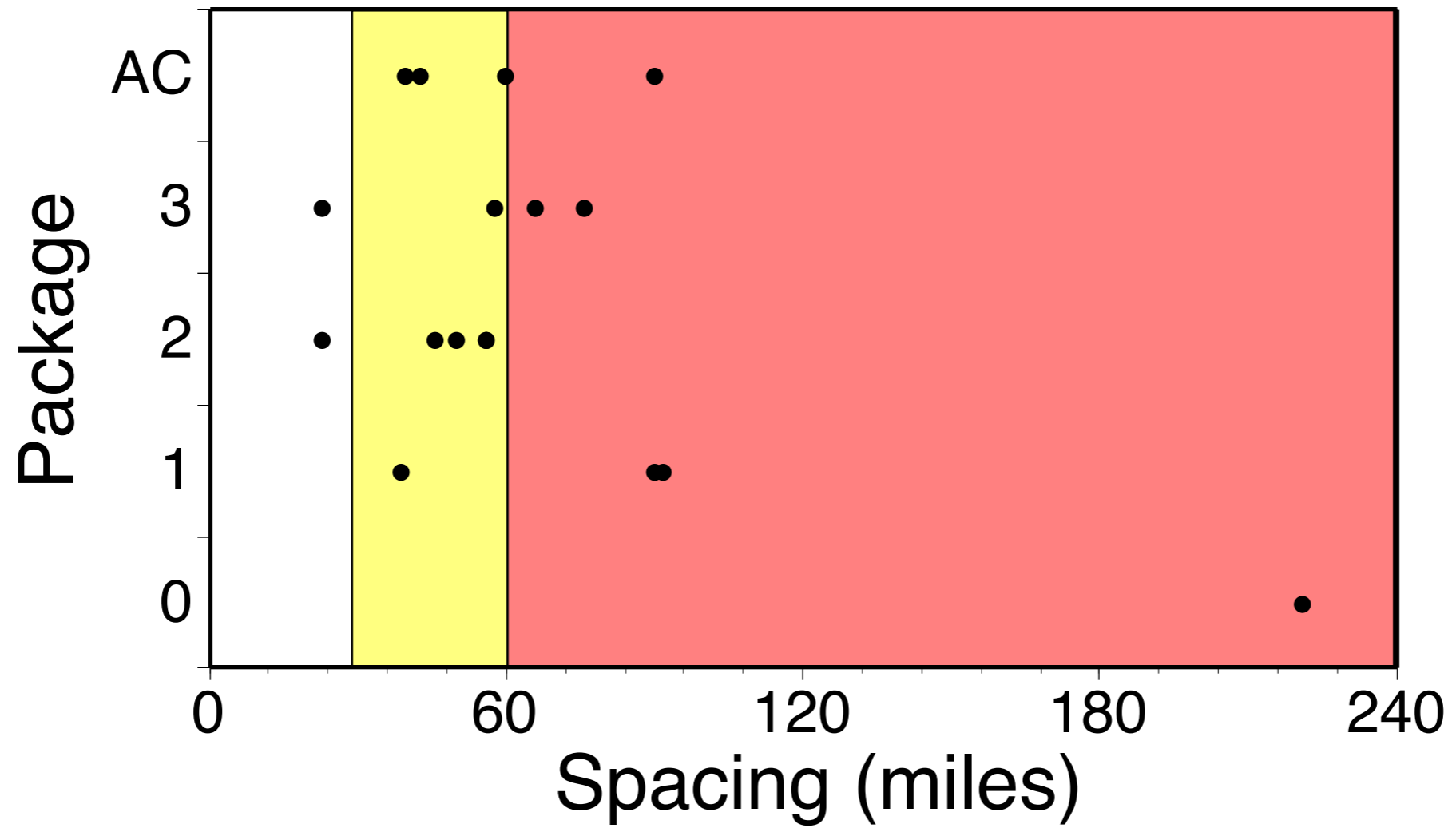
Sand: 0 - 30m



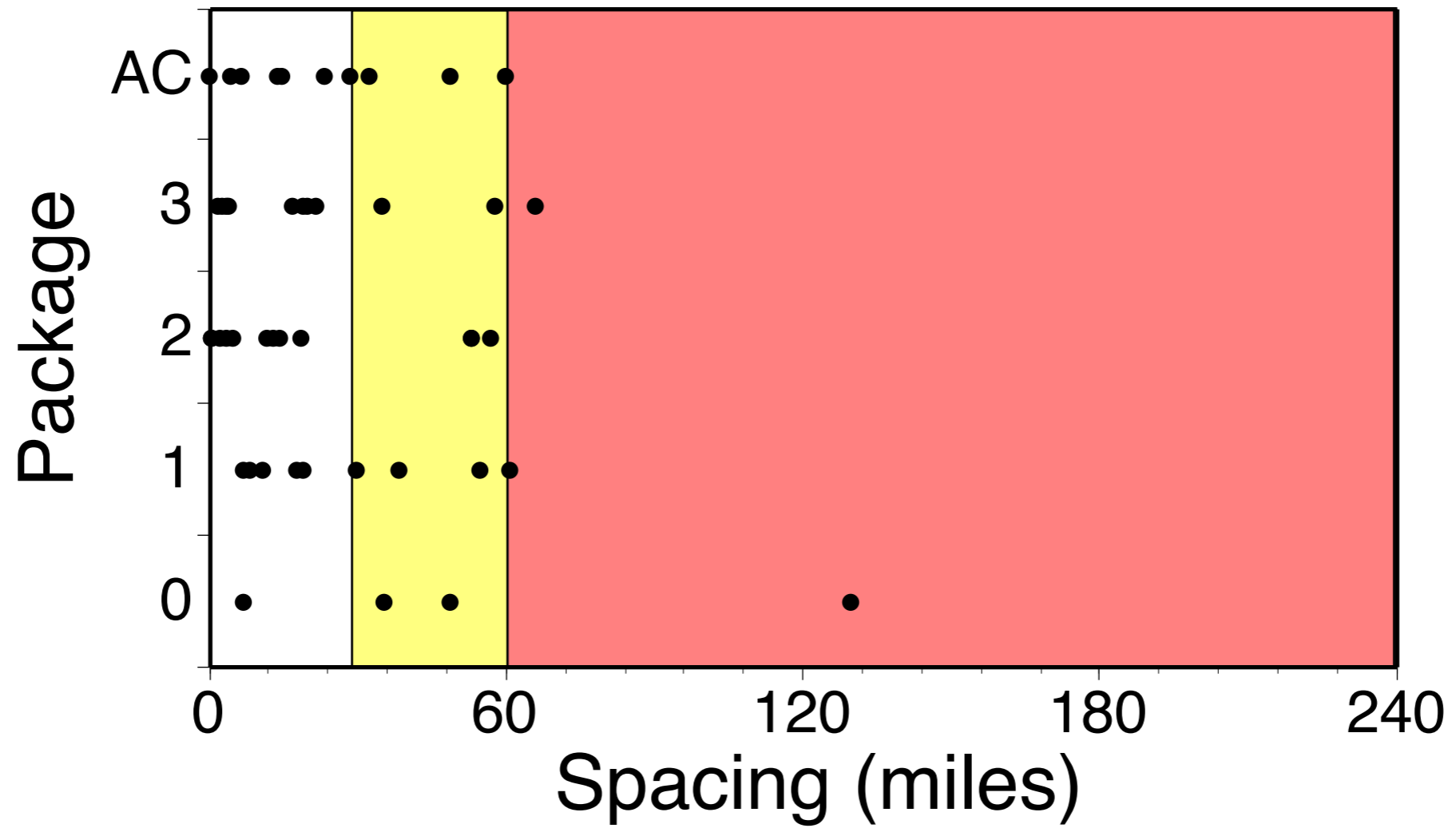
Sand: 30 - 100m



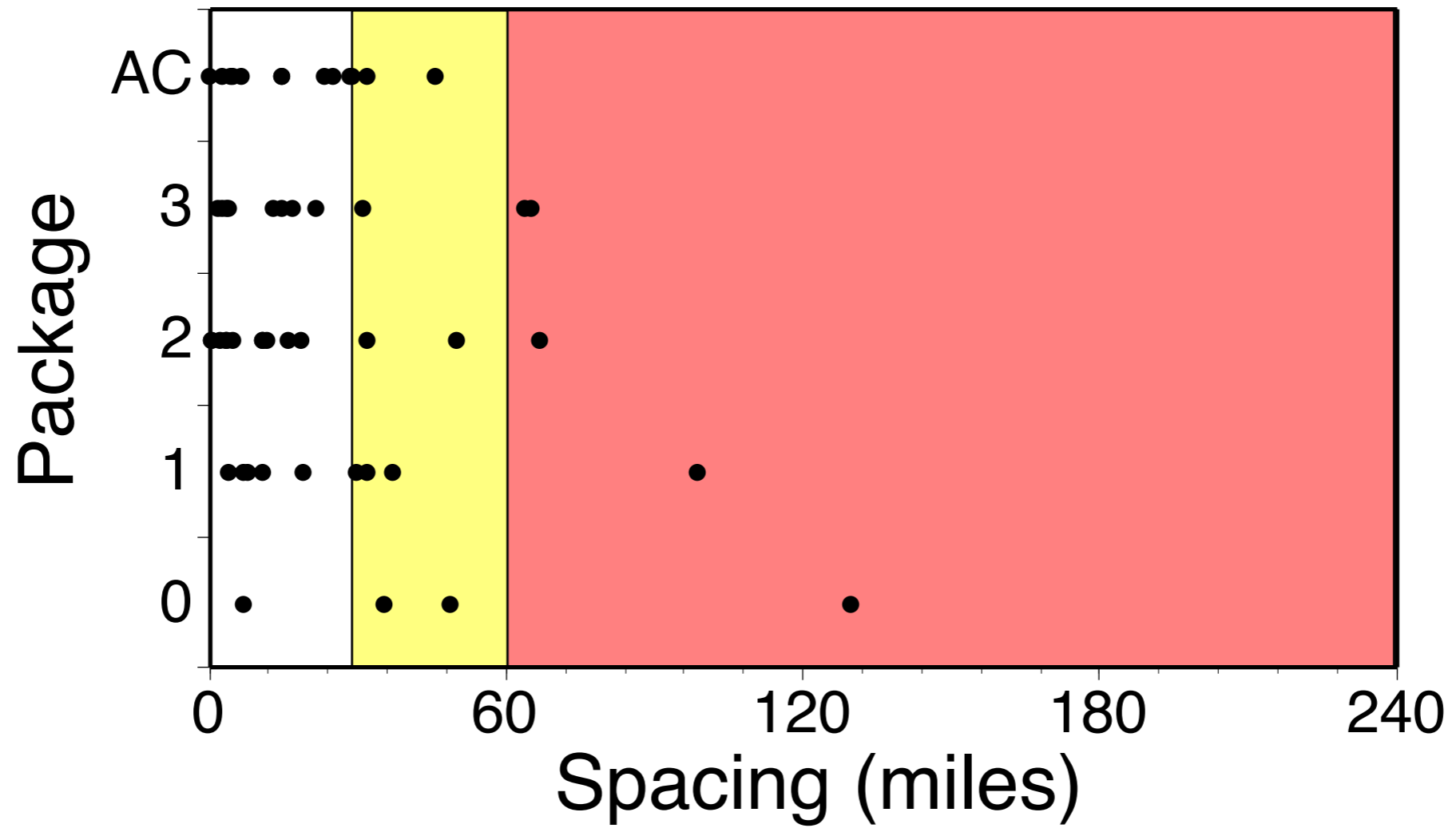
Sand: > 100m



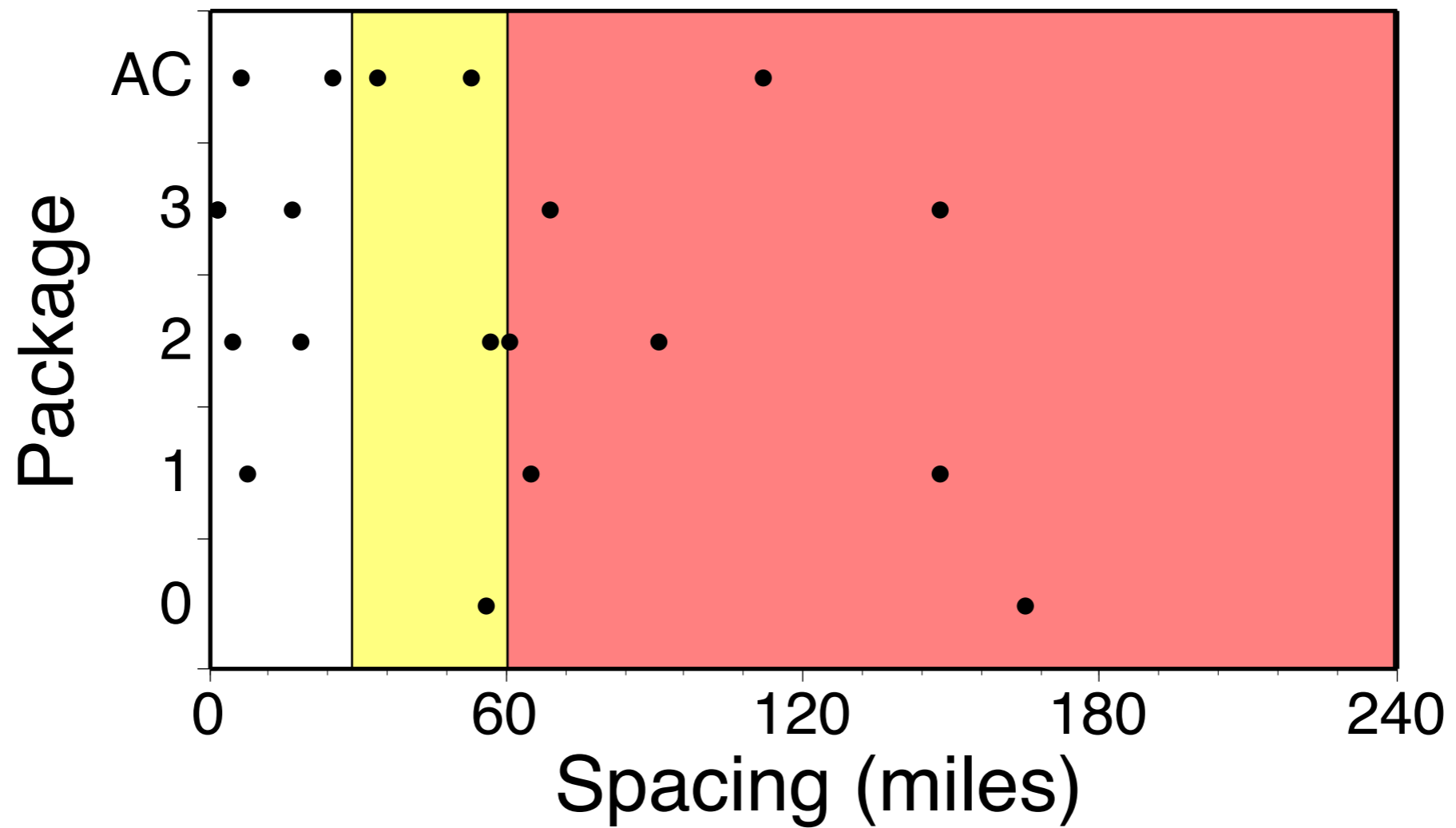
Kelp Forest



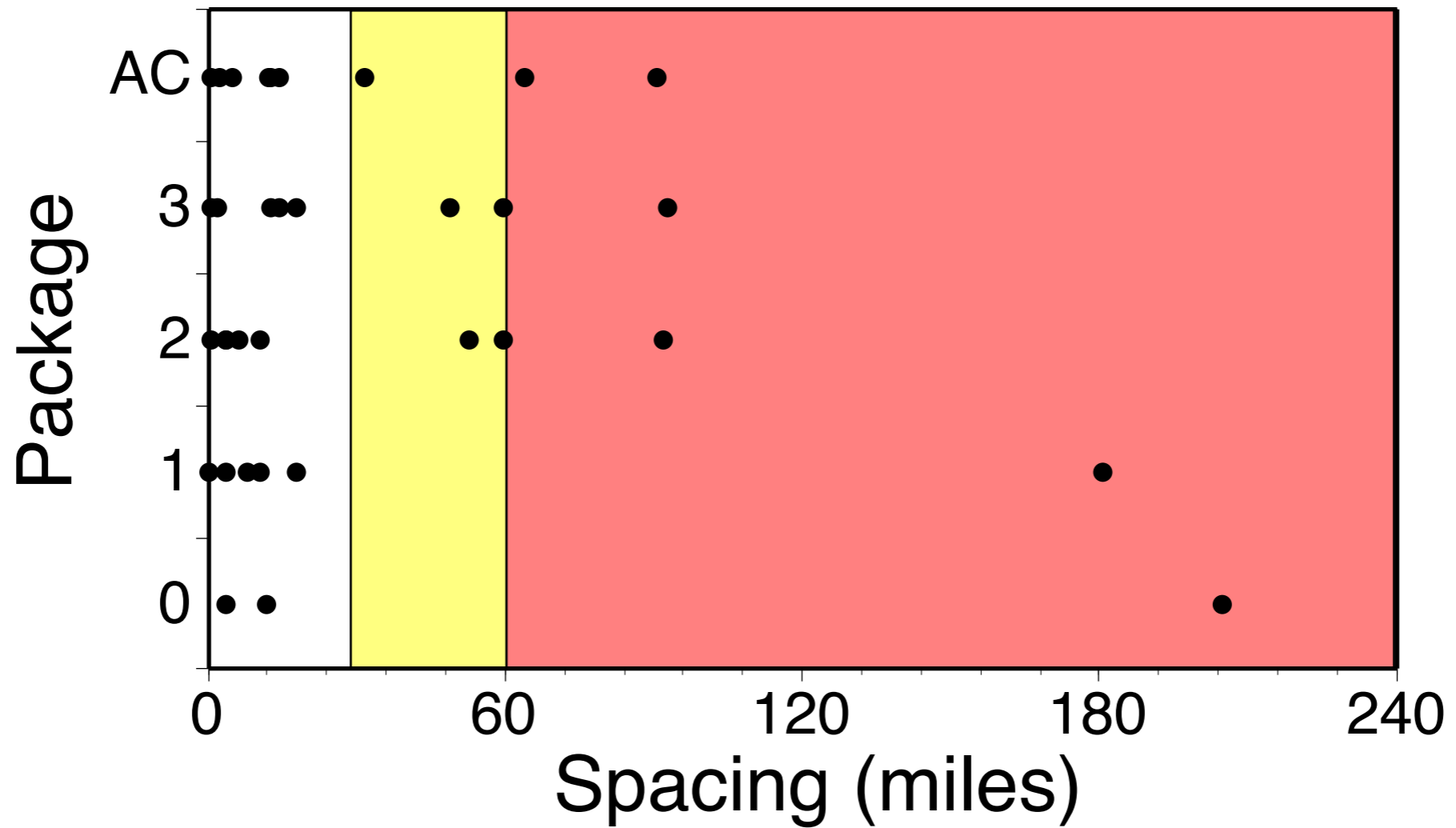
Rock: 0 - 30m



Rock: 30 - 100m

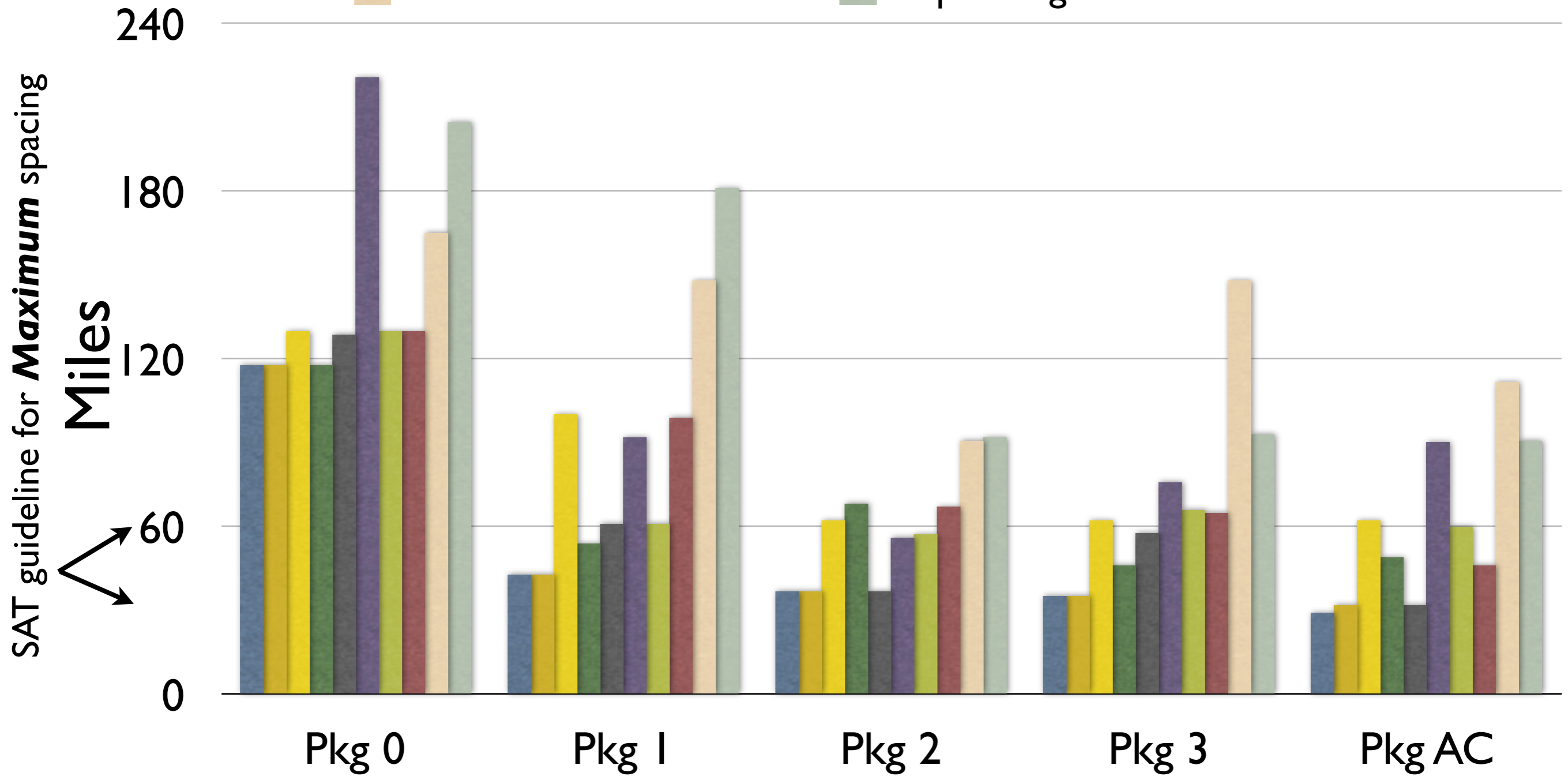


Upwelling Centers



Maximum Gaps

- Sandy Beach
- Surfgrass/Eelgrass
- Sand: 30 - 100m
- Kelp Forest
- Rock: 30 - 100m
- Rocky Intertidal
- Sand: 0 - 30m
- Sand: >100m
- Rock: 0 - 30m
- Upwelling Centers



MPA Spacing (10 habitats)

Pkg	Average Maximum Gap	Largest Gap	Gaps >> Guideline*
0	146	221	10
1	89	181	7
2	60	91	0
3	68	148	2
AC	60	112	2

*or greater than minimum possible gap if guideline not achievable.