**Table S1.** Parameters and values used in simulation model.

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| Parameter | Symbol | Value |
| Coefficient of production | α | 100 |
| Labor technology parameter | β | 4.67\*10-1 |
| Land technology parameter | γ | 3.075\*10-1 |
| Density dependent recruit mortality | κ | -4.875\*10-8 |
| Juvenile grouper mortality | Mj | 2\*10-1 |
| Adult grouper natural mortality | Mn | 1.8\*10-1 |
| Low pollution | - | 1\*10-4 \* Land Used |
| High pollution | - | 1\*10-3 \* Land Used |
| Marginal Cost of Fishing | z | 3.267\*103 |
| Marine enforcement costs | E | 10% \* z |
| Land rental price | p | 15 \* Land Used |
| Land conservation costs | A | 10% \* p |
| Catch coefficient | q | 7.5\*10-5 |