

Supporting Information

Tables

Table S1. Generalized linear models to assess the efficiency of a dusky grouper restocking program by the trait number of individuals (NI).

	Modelo*	Exponencial Family	Link function	Number of Parameters	AIC
Model 1	$Y \sim N (\mu_0 + \mu_1 V_1 + \mu_2 V_2 + \mu_3 V_3 + \mu_4 V_4 + \mu_5 V_1 : V_4, \sigma_0)$	Poisson	log	7	1406,4
Model 2	$Y \sim N (\mu_0 + \mu_1 V_1 + \mu_2 V_2 + \mu_3 V_3 + \mu_4 V_4, \sigma_0)$	Poisson	log	6	1405,0
Model 3	$Y \sim N (\mu_0 + \mu_1 V_1 + \mu_2 V_2 + \mu_4 V_4, \sigma_0)$	Poisson	log	5	1403,0
Model 4	$Y \sim N (\mu_0 + \mu_2 V_2 + \mu_4 V_4, \sigma_0)$	Poisson	log	4	1415,3
Model 5	$Y \sim N (\mu_0 + \mu_1 V_1 + \mu_4 V_4, \sigma_0)$	Poisson	log	4	1406,3
Model 6	$Y \sim N (\mu_0 + \mu_1 V_1 + \mu_2 V_2, \sigma_0)$	Poisson	log	4	1415,1
Model 7	$Y \sim N (\mu_0 + \mu_4 V_4, \sigma_0)$	Poisson	log	3	1420,6
Model 8	$Y \sim N (\mu_0 + \mu_2 V_2, \sigma_0)$	Poisson	log	3	1427,2
Model 9	$Y \sim N (\mu_0 + \mu_1 V_1, \sigma_0)$	Poisson	log	3	1418,8

*Y: value of the dependent variable number of individuals - NI of the i-th observation; μ_0 : mean; $\mu_1 V_1$: parameter/value of the predictor of the i-th observation associated with the sampling point - SP variable; $\mu_2 V_2$: parameter/value of the predictor of the i-th observation associated with the release period - RP (before and after) variable; $\mu_3 V_3$: parameter/value of the predictor of the i-th observation associated with the divers - DI (a team of divers 1 and 2) variable; $\mu_4 V_4$: parameter/value of the predictor of the i-th observation associated with the depth - DP (4 or 8 m) variable; σ_0 : random error associated with the model.

Table S2. Descriptive data of selected hot spot and control locations before hatchery-reared dusky grouper release in 2019 and 2020

Before release			Release data				
Hot Spots	Date of UVC survey	Number of wild dusky grouper observed	Release Date 1	Release Date 2	Area covered	Release Spots	Quantity per location*
Velasques	24/03/2019	7	25/03/2019	19/02/2020	20x50	5	4000
Cambaraú	27/03/2019	4	27/03/2019	13/01/2020	10x100	5	4000
Pacuiba	09/04/2019	4	09/04/2019	26/01/2020	10x100	5	4000
Sombrio	07/04/2019	5	11/04/2019	17/03/2020	10x100	5	4000
Portinho	02/04/2019	12	15/05/2019	18/03/2020	20x50	5	4000
Total							20000
Buzios Island	20/04/2019	5	Control (without release)				

*Two data releases x 5 releases spots x 400 individuals per release = 4,000 each release per location