Supplementary materials

	0 (Start)		12		24		36	
Genus	Shallow	Mesophotic	Shallow	Mesophotic	Shallow	Mesophotic	Shallow	Mesophotic
Acanthastrea	-	1	-	1	-	1	-	1
Astreopora	1	6	1	4	1	3	0	3
Concinaraea	-	5	-	0	-	0	-	0
Cynarina	-	1	-	0	-	0	-	0
Cyphastrea	11	8	8	5	8	4	7	3
Dipsastrea	3	-	3	-	3	-	3	-
Echinophllia	2	-	2	-	2	-	1	-
Echinopora	2	-	2	-	2	-	1	-
Favites	7	7	7	3	7	3	5	3
Leptastrea	5	2	4	2	4	2	3	2
Leptoseris	1	2	1	1	1	0	1	0
Pavona	2	2	2	0	2	0	2	0
Plerogyra	-	1	-	1	-	0	-	0
Pocillopora	14	1	10	1	6	1	6	0
Podabacia	-	5	-	0	-	0	-	0
Porites	9	87	1	30	1	17	1	12
Psammocora	5	32	5	27	5	21	3	17
Stylocoeniella	-	2	-	1	-	1	-	0
Stylophora	70	24	57	7	42	6	27	4
Unknown	-	16	-	3	-	3	-	1
Total	132	202	106	86	84	62	60	46

Table S1. Number of surviving coral juveniles at the start of the study (0 months) and after 12, 24, and 36 months into the study on shallow and transplanted mesophotic tiles.

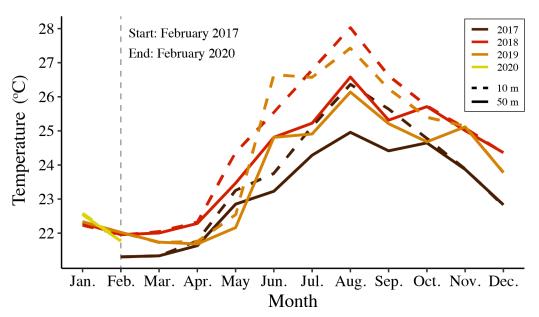


Figure S1. Monthly temperature regime (°C) measured in the northern Gulf of Eilat, Red Sea, at 10 m (dashed lines) and 50 m (solid lines) during the study period (Feb. 2017–Feb. 2020). Data was acquired from the The Israel National Monitoring Program (NMP 2017–2020).

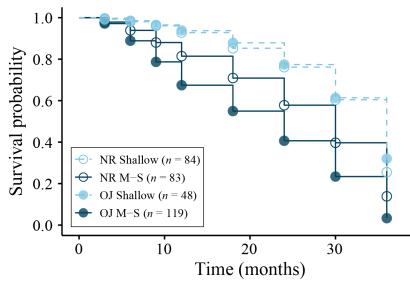


Figure S2. Assemblage level Kaplan-Meier survival curves of scleractinian coral juveniles during 36 months, for shallow (*light-blue*; dashed lines) and mesophotic-to-shallow transplants ("M-S"; *dark-blue*; solid lines), from the two study sites (filled dots = "NR"; hollow dots = "OJ"). Number of coral juveniles (*n*) are shown in the legend box.

Reference

NMP (2017–2020) The Israel National Monitoring Program (NMP) in the Northern Gulf of Eilat. www.meteo-tech.co.il/EilatYam_data/ey_surface_coastal_cruise_download_data.asp