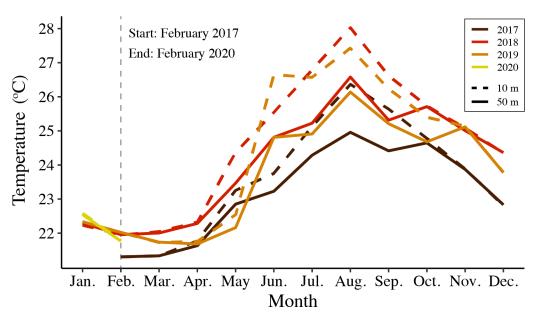
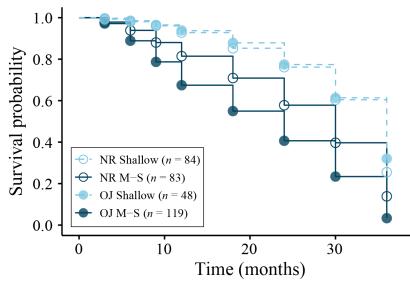
## Supplementary materials

	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