Table S1. Chi-square tests obtained for frequencies of size, weight, and age classes of ribbed sculpin *Triglops pingelii* in the Kara Sea, September 2019. Values in bold font indicate statistical significance.

Source	df	N	χ^2	p
Sample				
TL, mm	8	89	27,798	**0,001**
W, g	6	89	50,292	**< 0,001**
Age, years	3	89	39,944	**< 0,001**
Pairwise males and females comparison				
TL, mm	8	89	11,933	0,154
W, g	6	89	12,467	0,052
Age, years	3	89	7,110	0,068

Table S2. Results of PERMANOVA test for diet composition among various size groups of ribbed sculpin *Triglops pingelii* in the Kara Sea, September 2019 (permutation N=999, α=0.05, F= 4.078, p=0.001). Values in bold are statistically significant.

F (pseudo-F)			
Size class	41-70	71-100	> 100
41-70		3.111	6.804
71-100	3.111		3.304
> 100	6.804	3.304	

p			
Size class	41-70	71-100	> 100
41-70		**0.012**	**0.001**
71-100	**0.012**		**0.015**
> 100	**0.001**	**0.015**	

Table S3. Results of ANOSIM test for diet composition among various size groups of ribbed sculpin *Triglops pingelii* in the Kara Sea, September 2019 (permutation N=999, α=0.05, R = 0.088, p=0.012). Values in bold are statistically significant.

R			
Size class	41-70	71-100	> 100
41-70		0.007794	0.3077
71-100	0.007794		0.07793
> 100	0.3077	0.07793	

p			
Size class	41-70	71-100	> 100
41-70		0.342	**0.001**
71-100	0.342		**0.035**
> 100	**0.001**	**0.035**	