

## Mediterranean Marine Science

Vol 25, No 3 (2024)

Mediterranean Marine Science



**From rarity to reality: the hidden abundance of critically endangered deep-sea little gulper shark (*Centrophorus uyato*) in the southern Adriatic Sea**

ANDREJ GAJIĆ A. , JAMES SULIKOWSKI A.

doi: [10.12681/mms.37404](https://doi.org/10.12681/mms.37404)

### To cite this article:

GAJIĆ A. , A., & SULIKOWSKI A. , J. (2024). From rarity to reality: the hidden abundance of critically endangered deep-sea little gulper shark (*Centrophorus uyato*) in the southern Adriatic Sea. *Mediterranean Marine Science*, 25(3), 641–649. <https://doi.org/10.12681/mms.37404>

## From rarity to reality: the hidden abundance of critically endangered deep-sea little gulper shark (*Centrophorus uyato*) in the southern Adriatic Sea

Andrej A. GAJIĆ and James A. SULIKOWSKI

*Mediterranean Marine Science*, 25 (3) 2024

Full sets of technical measurements of the remaining (n=6) examined individuals.

### PART 1

Observed measurement	CEN – 02 / 23		CEN – 4 / 23		CEN – 5 /23	
	mm	%TL	mm	%TL	mm	%TL
Total length	980	100	977	100	810	100
Fork length	857	87.45	854	87.14	704	86.91
Head length	242	24.69	213	21.73	181	22.35
Precaudal length	795	81.12	801	81.73	656	80.99
Prebranchial length	184	18.78	161	16.43	145	17.90
Interdorsal space	265	27.04	235	23.98	208	25.68
Eye length	39	3.98	42	4.29	41	5.06
Mouth width	71	7.24	68	6.94	66	8.15
Pectoral fin length	180	18.37	171	17.45	142	17.53
Pectoral fin height	108	11.02	84	8.57	80	9.88
Pectoral fin anterior margin	120	12.24	102	10.41	101	12.47
Pectoral fin posterior margin	98	10.00	115	11.73	82	10.12
Pectoral fin base length	56	5.71	51	5.20	36	4.44
Pectoral fin inner margin	121	12.35	131	13.37	107	13.21
First dorsal fin total length	185	18.88	178	18.16	149	18.40
First dorsal fin base length	123	12.55	116	11.84	98	12.10
First dorsal fin height	64	6.35	57	5.82	53	6.54
First dorsal fin anterior margin	121	12.35	121	12.35	104	12.84
First dorsal fin posterior marg.	925	94.38	81	8.27	76	9.38

*Continued*

*Part I continued*

Observed measurement	CEN – 02 / 23		CEN – 4 / 23		CEN – 5 / 23	
	mm	%TL	mm	%TL	mm	%TL
First dorsal fin inner margin	53	5.41	59	6.02	45	5.56
Second dorsal fin total length	91	9.29	105	10.71	90	11.11
Second dorsal fin base length	54	5.51	71	7.24	57	7.04
Second dorsal fin height	41	4.18	40	4.08	41	5.06
Second dorsal fin anterior m.	61	6.22	79	8.06	64	7.90
Second dorsal fin posterior m.	58	5.92	53	5.41	51	6.30
Second dorsal fin inner margin	41	4.18	34	3.47	35	4.32
Pelvic fin total length	106	10.82	108	11.02	92	11.36
Pelvic fin height	56	5.71	58.5	5.97	50	6.17
Pelvic fin base length	50	5.10	34	3.47	33	4.07
Pelvic fin anterior margin	69	7.04	58.5	5.97	59	7.28
Pelvic fin posterior margin	79	8.06	76	7.76	62	7.65
Pelvic fin inner margin	60	6.12	66	6.73	60	7.41
Clasper length	-	-	-	-	60	7.41
Caudal fork length	87	8.88	85	8.70	91	11.23
Dorsal caudal margin	170	17.35	176	17.96	161	19.88
Preventral caudal margin	97	9.90	110	11.22	91	11.23
Lower post. caudal margin	37	3.78	33	3.37	40	4.94
Terminal caudal margin	63	6.43	72	7.35	63	7.78
Subterminal caudal margin	20	2.02	21	2.14	28	3.46
Caudal fin form width	62	6.33	70	7.14	65	8.02
Interspiracular	67	6.84	64	6.53	60	7.41
Interorbital	980	100	977	100	810	100
Preoral	857	87.45	854	87.14	704	86.91
Prenasal	242	24.69	213	21.73	181	22.35
Predorsal space	184	18.78	161	16.43	145	17.90
Internasal	265	27.04	235	23.98	208	25.68
Distance 1st and 5th gill slit	795	81.12	801	81.73	656	80.99

## PART II

Observed measurement	CEN – 06 / 23		CEN – 09 / 23		CEN – 10 / 23	
	mm	%TL	mm	%TL	mm	%TL
Total length	976	100	956	100	810	100
Fork length	880	90.16	869	90.90	713	88.02
Head length	226	23.16	229	23.95	185	22.84
Precaudal length	817	83.71	794	83.05	662	81.73
Prebranchial length	198	20.29	181	18.93	146	18.02
Interdorsal space	255	26.13	254	26.57	229	28.27
Eye length	39	4.00	42	4.39	40	4.94
Mouth width	68	6.97	82	8.58	67	8.27
Pectoral fin length	172	17.06	154	16.11	108	13.33
Pectoral fin height	99	10.14	101	10.56	72	8.89
Pectoral fin anterior margin	110	11.27	113	11.82	90	11.11
Pectoral fin posterior margin	82	8.40	85	8.89	73	9.01
Pectoral fin base length	45	4.61	67	7.01	42	5.19
Pectoral fin inner margin	113	11.57	115	12.03	86	10.62
First dorsal fin total length	150	15.37	166	17.36	139	17.16
First dorsal fin base length	96	9.84	91	9.62	82	10.12
First dorsal fin height	55	5.64	60	6.28	42	5.19
First dorsal fin anterior margin	110	11.27	75	7.85	87	10.74
First dorsal fin posterior marg.	87	8.91	115	12.03	66	8.15
First dorsal fin inner margin	62	6.35	52	5.44	46	5.68
Second dorsal fin total length	99	10.14	100	10.13	90	11.11
Second dorsal fin base length	61	6.25	62	6.49	42	5.19
Second dorsal fin height	48	4.92	51	5.33	38	4.69
Second dorsal fin anterior m.	68	6.97	71	7.43	57	7.04
Second dorsal fin posterior m.	64	6.56	64	6.69	59	7.28
Second dorsal fin inner margin	58	5.94	40	4.18	36	4.44
Pelvic fin total length	119	12.19	115	12.03	86	10.62
Pelvic fin height	53	5.43	47	4.92	55	6.79

*Continued*

*Part II continued*

Observed measurement	CEN – 06 / 23		CEN – 09 / 23		CEN – 10 / 23	
	mm	%TL	mm	%TL	mm	%TL
Pelvic fin base length	45	4.61	64	6.69	36	4.44
Pelvic fin anterior margin	61	6.25	68	7.11	60	7.41
Pelvic fin posterior margin	93	9.53	86	9.00	59	7.28
Pelvic fin inner margin	104	10.66	61	6.38	62	7.65
Clasper length	167	17.11	-	-	67	8.27
Caudal fork length	95	9.73	81	8.47	91	11.23
Dorsal caudal margin	167	17.11	164	17.15	146	18.02
Preventral caudal margin	99	10.14	105	10.98	88	10.86
Lower post. caudal margin	34	3.48	44	4.60	34	4.20
Terminal caudal margin	62	6.35	62	6.49	65	8.02
Subterminal caudal margin	19	1.95	22	2.30	21	2.59
Caudal fin form width	70	7.17	66	6.90	65	8.02
Interspiracular	68	6.97	70	7.32	55	6.79
Interorbital	68	6.97	78	8.16	69	8.52
Preoral	92	9.43	89	9.31	79	9.75
Prenasal	36	3.69	35	3.66	19	2.35
Distance 1st and 5th gill slit	47	4.82	42	4.39	31	3.83