

Disclaimer: a note of caution

Some years of occasional reading of three books, and a small collection, do not make me an expert in Olives.

Both the determination of the specimens I own, and the tables proposed in the following pages are affected by my lack of competence, even though I have the luck to know maybe the most reliable and competent Italian expert in the field of Olives, who is patiently advising me.


Maybe the systematics of the genus *Oliva* is not the most challenging, if compared e.g. with some genus of Cypraeidae: this notwithstanding, the confusion created by splitters in the last 40 years wasn't adequately clarified by the magnificent work by Tursch and Greifeneder "*Oliva* shells – the genus *Oliva* and the species problem", because their well-documented and accurately applied "objective morphospecies approach" – while restoring the truth about most "psychospecies" – tends to lump in a single morphological continuum some closely related but distinct biological species. Thus, just to make an example, the treatment of most Atlantic species by Tursch and Greifeneder can't be deemed as satisfactory. Their "*O. fulgurator* complex" cannot be disputed on a "objective morphospecies" basis but, as Sterba points out, doesn't resolve the objective biological species diversity.

Considering the limits of my budget and of my command of the subject, I chose an ambitious but still affordable objective: collecting at least one specimen of each **valid species** of *Oliva*.


My definition of "**valid species**" can be easily derived from the tables in the following pages. I rely on competent advice and on some intuition – I am slowly beginning to grasp the basics, but still I have very much to learn.

The only value of the tables in the next pages – if any – is the cross-reference among the three works I own.


Checklist date: 6 December 2016

Bernard TURSCH & Dietmar GREIFENEDER <i>Oliva</i> Shells-The genus <i>Oliva</i> and the Species problem L'INFORMATORE PICENO, Italy, 2001				Günther H. W. STERBA <i>Olividae</i> – A Collectors Guide ConchBooks, Hackenheim, 2004			HUNON-HOARAU-ROBIN <i>Olividae</i> – A Complete survey... ConchBooks, Hackenheim, 2009		Taxonomy								
#	Group	Page	Col.Plit	Notes	Page	Col.Plit	Notes	Page	Notes	Species	Availability	Valid T&G	Valid Sterba	Valid HHR	Valid Else	Valid for me	Owned or not
1.	1	299	4		70	22		48	Form of <i>O. annulata</i>	<i>amethystina</i> (Röding, 1798)		1	1	1		1	1
2.	10	375	26		58	16		92		<i>atalina</i> Duclos, 1835		2	2	2		2	2
3.	4	327	12		90	32		154		<i>athenia</i> Duclos, 1840	Difficult	3	3	3		3	1
4.	2	314	6		78	26		34		<i>australis</i> Duclos, 1835		4	4	4		4	3
5.	7	353	18		56	---		160		<i>baileyi</i> Petuch, 1979	Very rare	5	5	5		5	2
6.	=	---	37-T6	<i>O. fulgurator</i> complex	---	---		164		<i>barbadensis</i> Duclos, 1835	Difficult			6		1	3
7.	=	---	---		---	---		212		<i>bayeri</i> Petuch, 2001	Difficult			7		2	4
8.	=	---	T21	syn. <i>O. semmelinki</i>	78	26		46	syn. <i>O. semmelinki</i>	<i>bathyalis</i> Petuch & Sargent, 1986			6		6	4	
9.	=	---	T4	<i>O. fulgurator</i> complex	98	36		166		<i>bewleyi</i> Marrat, 1870			7	8	7	5	
10.	=	---	37-T5	<i>O. fulgurator</i> complex	96	35		168		<i>bifasciata</i> Küster in Weinkrauff, 1878			8	9	8	6	
11.	3	320	8		84	29		156		<i>brettinghami</i> Bridgman, 1909		6	9	10	9	7	
12.	1	306	5		72	23		52	<i>buloui</i> , with 3 ssp.	<i>buelowi</i> Sowerby, 1890		7	10	11	10	8	
13.	=	---	---	(undescribed)	---	---		56		<i>buelowi inscripta</i> Petuch&Sargent, 1986	Difficult			12		3	5
14.	1	307	5		72	23		54		<i>buelowi phuketensis</i> Tursch, Germain&Greif, 1986		8	11	13	11	9	
15.	=	---	---	(undescribed)	---	---		57		<i>buelowi stoneorum</i> Petuch&Sargent, 1986	Difficult			14		4	6
16.	12	392	33		68	21		64		<i>bulbiformis</i> Duclos, 1840		9	12	15	12	10	
17.	12	387	32		64-66	19-20		66		<i>bulbosa</i> (Röding, 1798)		10	13	16	13	11	
18.	10	373	27		60	17		94		<i>caerulea</i> Röding, 1798		11	14	17	14	12	
19.	4	328	10		86	30		80		<i>carneola</i> (Gmelin, 1791)		12	15	18	15	13	
20.	12	390	33		58	16		70		<i>caroliniana</i> Duclos, 1835		13	16	19	16	14	
21.	2	311	7		72	23		36		<i>chrysoplecta</i> Tursch & Greifeneder, 1989		14	17	20	17	15	
22.	=	---	37-T6	<i>O. fulgurator</i> complex	96	35		172		<i>circinata</i> Marrat, 1871			18	21	18	16	
23.	5	333	13		56	15		128		<i>concovospira</i> Sowerby, 1914		15	19	22	19	17	
24.	=	---	20-T13	<i>O. irisans</i>	50	12	form of <i>O. irisans</i>	98		<i>concinna</i> Marrat, 1870				23	20	18	
25.	=	---	20-T13	<i>O. irisans</i> – Holot. = <i>O. miniacea</i>	50	12	syn. of <i>O. irisans</i>	102		<i>concinna kremerorum</i> Petuch&Sargent, 1986				24	21	19	
26.	5	338	14		82	28		72		<i>dactyliola</i> Duclos, 1840		16	20	25	22	20	
27.	=	---	T4	<i>O. fulgurator</i> complex	---	---		174		<i>drangai</i> Schwengel, 1951	Very rare			26	5	7	
28.	7	357	19		84	29		149		<i>dubia</i> Schepman, 1904		17	21	27	23	21	
29.	8	358	24		44	9		234		<i>elegans</i> Lamarck, 1811		18	22	28	24	22	
30.	10	376	26		58	16		104		<i>emeliodina</i> Duclos, 1845		19	23	29	25	23	
31.	6	346	15		84	29		158		<i>faba</i> Marrat, 1867		20	24	30	26	24	
32.	=	---	---	(undescribed)	---	---		---		<i>februaryana</i> Falconieri, 2008					1	6	25
33.	6	349	15		153	---		154	syn. <i>O. athenia</i>	<i>fijiana</i> Tursch & Greifeneder, 2001		21	25		27	26	
34.	14	412	35		92	33		176		<i>flammulata dolicha</i> Locard, 1897		22	26		28	27	
35.	14	410	34		92	33		176		<i>flammulata</i> Lamarck, 1811		23	27	31	29	28	
36.	15	417	39		106	40		178		<i>foxi</i> Stingley, 1984		24	28	32	30	29	
37.	14	400	36,37	<i>O. fulgurator</i> complex	94	34		180		<i>fulgurator</i> (Röding, 1798)		25	29	33	31	30	
38.	=	---	T6	<i>O. fulgurator</i> complex	94	34	form of <i>O. fulgurator</i>	182		<i>fulgurator bullata</i> Marrat, 1871				34	32	31	


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39.	=	---	T5	<i>O. fulgurator</i> complex	96	35	form of <i>O. circinata</i>	184	form of <i>O. circinata</i>	<i>goajira</i> Petuch&Sargent, 1986				35		33	32
40.	=	---	T14	local form of <i>O. vidua</i>	---	---		---		<i>hanleyorum</i> Petuch & Sargent, 1986	Difficult					7	8
41.	4	331	12		90	32		33		<i>hilli</i> Petuch & Sargent, 1986		26	30	36		34	33
42.	9	365	22		54	14		106		<i>hirasei</i> Kira, 1959		27	31	37		35	34
43.	=	---	---	(undescribed)	---	---		---		<i>hirasei ameliae</i> Strano, 2016					2	36	35
44.	16	421	40		100	37		186		<i>incrassata</i> (Lightfoot in Solander, 1786)		28	32	38		37	36
45.	=	---	6-T15	form of <i>O. vidua</i>	44	9	form of <i>O. vidua</i>	236		<i>indomalaysica</i> Petuch & Sargent, 1986				39		8	37
46.	9	367	20,21		48-50	11-12		108		<i>irisans</i> Lamarck, 1811		29	33	40		38	38
47.			T15	<i>nomen dubium</i>	68	21	Syn. of <i>O. bulbiformis</i>	65	form of <i>O. bulbiformis</i>	<i>jayana</i> Marrat, 1867						39	39
48.	=	---	T3	<i>O. fulgurator</i> complex	94	34		188		<i>jamaicensis</i> Marrat, 1867				34	41	40	40
49.	=	---	T4	<i>O. fulgurator</i> complex	---	---		189		<i>jamaicensis zombia</i> Petuch&Sargent, 1986	Difficult			42		9	9
50.	3	318	9		72	23		38		<i>jaspeida</i> Duclos, 1835		30	35	43		41	41
51.	=	---	T21	jun.syn. of <i>O. semmelinki</i>	90	32		46	jun.syn. of <i>O. semmelinki</i>	<i>joyceae</i> Petuch & Sargent, 1986	Difficult			36		10	10
52.	16	422	40		104	39		190		<i>julieta</i> Duclos, 1840		31	37	44		42	42
53.	16	424	42		106	40		192		<i>kaleontina</i> Duclos, 1835		32	38	45		43	43
54.	5	339	14		52	13		74		<i>keeni</i> Marrat, 1870		33	39	46		44	44
55.	3	323	8		90	32		---	in genus <i>Belloliva</i>	<i>lacaniatai</i> Greifeneder & Blöcher, 1985		34	40			45	45
56.	12	394	31		56	15		76		<i>lecoquiatai</i> Ducros de St Germain, 1857		35	41	47		46	46
57.	2	312	6		78	26		40		<i>leonardhilli</i> Petuch & Sargent, 1986		36	42	48		47	47
58.	=	---	11-T28	jun. syn. of <i>O. todosina</i>	88	31		86	syn. <i>sidelia</i>	<i>lepida</i> Duclos, 1835				43		11	48
59.	=	---	16-T23	= <i>ispidula longispira</i> = <i>O. Oliva</i>	78	26	form of <i>O. oliva</i>	134		<i>longispira</i> Bridgman, 1906				49		48	49
60.	1	302	5		70	22		48	syn. <i>annulata</i>	<i>maculata</i> Duclos, 1840		37	44			49	50
61.	=	---	T15	form of <i>O. vidua</i>	---	---	Syn. of <i>O. vidua</i>	249	form of <i>O. vidua</i>	<i>macleaya</i> Duclos, 1840						12	51
62.	=	---	T3	<i>O. fulgurator</i> complex	98	36		170	form of <i>O. bifasciata</i>	<i>magdae</i> Petuch & Sargent, 1986	Difficult			45		13	11
63.	1	300	4		70	22		48	syn. <i>annulata</i>	<i>mantichora</i> Duclos, 1840		38	46			50	52
64.	11	383	31		38	6		122	syn. <i>pica</i>	<i>mascarena</i> Tursch & Greifeneder, 1996		39	47	50		51	53
65.	11	379	28,29		60-34	2-3-4		114		<i>miniacea</i> (Röding, 1798)		40	48	51		52	54
66.	11	380	30		34	4		118	form of <i>miniacea tremulina</i>	<i>miniacea flammeacolor</i> Petuch & Sargent, 1986		41	49			53	55
67.	11	381	29		36	5		118		<i>miniacea tremulina</i> Lamarck, 1811		42	50	52		54	56
68.	=	---	T15	syn. of <i>O. vidua</i>	90	32	Doubtful	246	syn. <i>vidua</i>	<i>mindanaoensis</i> Petuch & Sargent, 1986				51		14	57
69.	6	348	15		153	---		130	syn. <i>mustelina</i>	<i>mucronata</i> Marrat, 1871	Difficult	43	52			55	12
70.	13	395	34		56	15		126		<i>multiplicata</i> Reeve, 1850		44	53	53		56	58
71.	9	370	19		56	15		130		<i>mustelina</i> Lamarck, 1811		45	54	54		57	59
72.	=	---	26-T15	color form of <i>O. vidua</i>	44	9		246	syn. <i>vidua</i>	<i>neostina</i> Duclos, 1840				55		58	60
73.	3	317	9		82	28		144		<i>nitidula</i> Duclos, 1835		46	56	55		59	61
74.	=	---	9	form of <i>O. nitidula</i>	82	28	form of <i>O. nitidula</i>	146		<i>nitidula sandwichensis</i> Pease, 1860				56		60	62
75.	=	---	T4	<i>O. fulgurator</i> complex	---	---		194		<i>nivosa</i> Marrat, 1871	Difficult			57		15	13
76.	6	341	16, 17		74-76	24-25		136		<i>oliva</i> (Linnaeus, 1758)		47	57	58		61	63

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77.	=	---			---	---		---		<i>olivacea</i> Marrat, 1870					3	16	64
78.	=	---	39-T1	subj. jun.syn of <i>O. polpasta</i>	104	39		196		<i>olssoni</i> (Linnaeus, 1758)			58	59		62	65
79.	9	369	21		52	13		112	<i>syn. lignaria</i>	<i>ornata</i> Marrat, 1867		48	59	60		63	66
80.	2	316	6		90	32		46	<i>form of semmelinki</i>	<i>ouini</i> Kantor & Tursch, 1998		49	60			64	67
81.	9	366	19		54	14		60		<i>pacifica</i> Marrat, 1870		50	61	61		65	68
82.	2	309	7		80	27		42		<i>panniculata</i> Duclos, 1835		51	62	62		66	69
83.	1	303	5		72	23		58		<i>parkinsoni</i> Prior, 1975		52	63	63		67	70
84.	16	425	41		102	38		198		<i>peruviana</i> Lamarck, 1811		53	64	64		68	71
85.	5	334	14		90	32		84		<i>picta</i> Reeve, 1850		54	65	65		69	72
86.	=	---	T7	Form of <i>O. spicata</i>	---	---	Form of <i>O. spicata</i>	200		<i>pindarina</i> Duclos, 1840				66		70	73
87.	=	---	7-T25	Form of <i>O. panniculata</i>	80	27	Form of <i>O. panniculata</i>	44		<i>polita</i> Marrat, 1867				67		71	74
88.	15	413	39		104	39		204		<i>polpasta</i> Duclos, 1833		55	66	68		72	75
89.	11	382	30		38	6		97		<i>ponderosa</i> Duclos, 1840		56	67	69		73	76
90.	=	---	---	(undiscovered)	---	---		---	<i>in genus Belloliva</i>	<i>poppei</i> Sargent & Petuch, 2008					4	74	77
91.	15	419	40		100	37		152		<i>porphyria</i> (Linnaeus, 1758)		57	68	70		75	78
92.	=	---	T15	<i>syn. of O. vidua</i>	---	---		---	<i>form of O. vidua</i>	<i>raderi</i> Petuch & Sargent, 1986						17	79
93.	=	---	T6	<i>O. fulgurator</i> complex	94	34	<i>Syn. of O. reticularis</i>	206		<i>reclusa</i> Marrat, 1871	Difficult			71		18	14
94.	=	---	37-T5	<i>O. fulgurator</i> complex	94	34		208		<i>reticularis</i> Lamarck, 1811			69	72		76	80
95.	=	---	T5	<i>O. fulgurator</i> complex	94	34		238	<i>form of O. reticularis</i>	<i>reticularis ernesti</i> Petuch, 1990			70			77	81
96.	8	361	23		46	10		238		<i>reticulata</i> (Röding, 1798)		58	71	73		78	82
97.	=	---	9	<i>Syn. of O. nitidula</i>	82	28	<i>Syn. of O. nitidula</i>	148		<i>richerti</i> Kay, 1979	Difficult	59		74		79	15
98.	8	364	22		46	10		242		<i>rubrolabiata</i> Fischer, 1903		60	72	75		80	83
99.	7	354	18		84	29		150		<i>rufofulgurata</i> Schepman, 1904		61	73	76		81	84
100.	7	352	18		56	15		162		<i>rufula</i> Duclos, 1840		62	74	77		82	85
101.	=	---	T4	<i>O. fulgurator</i> complex	98	36		203		<i>sargenti</i> Petuch, 1987			75	78		83	86
102.	14	408	35		92	33		212		<i>sayana</i> Ravenel, 1834		63	76	79		84	87
103.	14	406	35		92	33		62		<i>scripta</i> Lamarck, 1811		64	77	80		85	88
104.	3	322	8		78	26		46		<i>semmelinki</i> Schepman, 1891		65	78	81		86	89
105.	11	384	30		40	7		124		<i>sericea</i> (Röding, 1798)		66	79	82		87	90
106.	=	---	---	nomen dub., <i>O. todosina / faba</i>	88	31		86		<i>sidelia</i> Duclos, 1835			80	83		19	91
107.	=	---	T22	= <i>O. bulbiformis</i>	68	21		64	= <i>O. bulbiformis</i> – <i>syn. similis</i>	<i>similis</i> Marrat, 1867			81			88	92
108.	=	---	T23		84	29	<i>form of O. faba</i>	143		<i>smithi</i> Bridgman, 1906	Difficult			84		89	16
109.	14	403	38		108	41		216		<i>spicata</i> (Röding, 1798)		67	82	85		90	93
110.	14	405	39		110	42		218		<i>spicata deynzeriae</i> Petuch & Sargent, 1986		68	83	86		91	94
111.	15	418	42		38	102		220		<i>splendidula</i> Sowerby, 1825		69	84	87		92	95
112.	=	---	---	(undiscovered)	---	---		136	<i>O. oliva grey pag. 136 - 139</i>	<i>staleyi</i> Perini, 2011					5	93	96
113.	=	---	T7	Form of <i>O. spicata</i>	110	42	<i>form of O. spicata</i>	222		<i>subangulata</i> Philippi, 1848				88		94	97
114.	1	307	5		86	30		132		<i>tessellata</i> Lamarck, 1811		70	85	89		95	98

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115.	6	343	17		76	25		140		<i>tigridella</i> Duclos, 1835		71	86	90			96	99
116.	12	388	31		62	18		78		<i>tigrina</i> Lamarck, 1811		72	87	91			97	100
117.	=	---	---	nomen dubium, <i>O. reticularis</i>	98	36		224		<i>tisiphona</i> Duclos, 1845			88	92			98	101
118.	4	325	11		88	31		90		<i>todosina</i> Duclos, 1840		73	89	93			99	102
119.	10	378	27		62	18		244		<i>tricolor</i> Lamarck, 1811		74	90	94			100	103
120.	15	414	39		104	39		226		<i>truncata</i> Marrat, 1867		75	91	95			101	104
121.	16	427	42		106	40		232		<i>undatella</i> Lamarck, 1811		76	92	96			102	105
122.	13	397	34		56	---	poss.Syn. <i>O. multiplicata</i>	126	Syn. of <i>O. multiplicata</i>	<i>vicdani</i> da Motta, 1982	Difficult					6	103	17
123.	4	330	12		153	---		104	Syn. of <i>O. emeliodina</i>	<i>vicweei</i> Recourt, 1989	Difficult	77	93				104	18
124.	=	---	---	nomen dubium, <i>O. spicata</i>	108	41	Syn. <i>O. spicata</i> f. <i>violacea</i>	126		<i>venulata</i> Lamarck, 1811				97			105	106
125.	8	360	25,26		42-44	8,9		246		<i>vidua</i> (Röding, 1798)		78	94	98			106	107
126.	=	---	38-T8	Form of <i>O. spicata</i>	108	41	form of <i>O.spicata</i>	230		<i>violacea</i> Marrat, 1867				99			107	108
127.	=	---	11-T28	subj. syn. of <i>O. todosina</i>	88	31		86	Syn. of <i>O. sidelia</i>	<i>volvarioides</i> Duclos, 1840				95			108	109
128.	=	---	---	= <i>O. panniculata</i>	80	27	form of <i>O. panniculata</i>	41		<i>williamsi</i> Melvill & Standen, 1897	Difficult			100			20	19
129.	5	336	13		90	32		85		<i>xenos</i> Petuch & Sargent, 1986		79	96	101			109	110
130.	=	---	T14	Form of <i>O. vidua</i>	---	---	form of <i>O.vidua</i>	---	Syn. of <i>O. vidua</i>	<i>zamboangensis</i> Petuch & Sargent, 1986	Difficult						21	20

Book	T&G	Sterba	H&H&R
Valid species	74	90 (87) (*)	92
Valid subspecies	5	6	9
Total	79	96	101

(*) Sterba in his final supplement (P. 153) declares 87 valid species but his book cites 90 including doubtful ones

Column			OWNED				Total
Valid for me	YES	black number	YES	black number	NO	red number	Total
		NO	red number				
Total				102	8	7	109
					13	21	
				110		20	130

Background colors in the table

Column	Colors
Group, Page, Col.Plt	Dark gray indicates a species deemed as invalid by the book considered.
Group	A different color for each "group" in Tursch & Greifeneder (2001).
Col.Plt.	The green background is for the species not recognized by Tursch & Greifeneder (2001) and brings a reference to the holotypes B&W tables in the same book.
Species	Yellow background marks the species that I still don't own.
Availability	A different color for each category as "difficult" or "very rare".
Valid T&G / Valid Sterba / Valid HHR	Red background means "not valid" for the author considered.
Valid else	White background indicates a species not included in the three books considered here, or a species described after their publication such as <i>O. hirasei ameliae</i> .
Valid for me	Black number: valid for me. Red number: I'm in doubt.
Owned or not	Black number: owned. Red number: not owned.