

Fig. 1. Sample localities of Ehrenberg's radiolarians (1: Caltanissetta, 2: Zante, 3: Aegina, 4: Südpol I, 5: Bermuda, 6: Oran, 7: Meersgrund (Azores Island 6480'), 8: Meeresgrund II (Atlantic Ocean 10800' Bay of Biscay), 9: Meeresgrund II (Nord Ocean 12000'), 10: Camorta, 11: Mexikanischer Golfstrom (Golfstrom 9066'), 12: Mexikanischer Golfstrom (Golfstrom 2556'), 13: Mexikanischer Golfstrom (Golfstrom 1158'), 14: Mexikanischer Golfstrom (Golfstrom 840'), 15: Davisstraße (6000 feet), 16: Davisstraße (9240 feet), 17: Davisstraße (10998 feet), 18: Davisstraße (11040 feet), 19: Philippinischer Ozean 19800', 20: Californischer Still Ozean 15600', 21: Zauguebarica 13200', 22: Barbados). Sampling locations except for lands are shown in the appendix figure in Ehrenberg (1873).

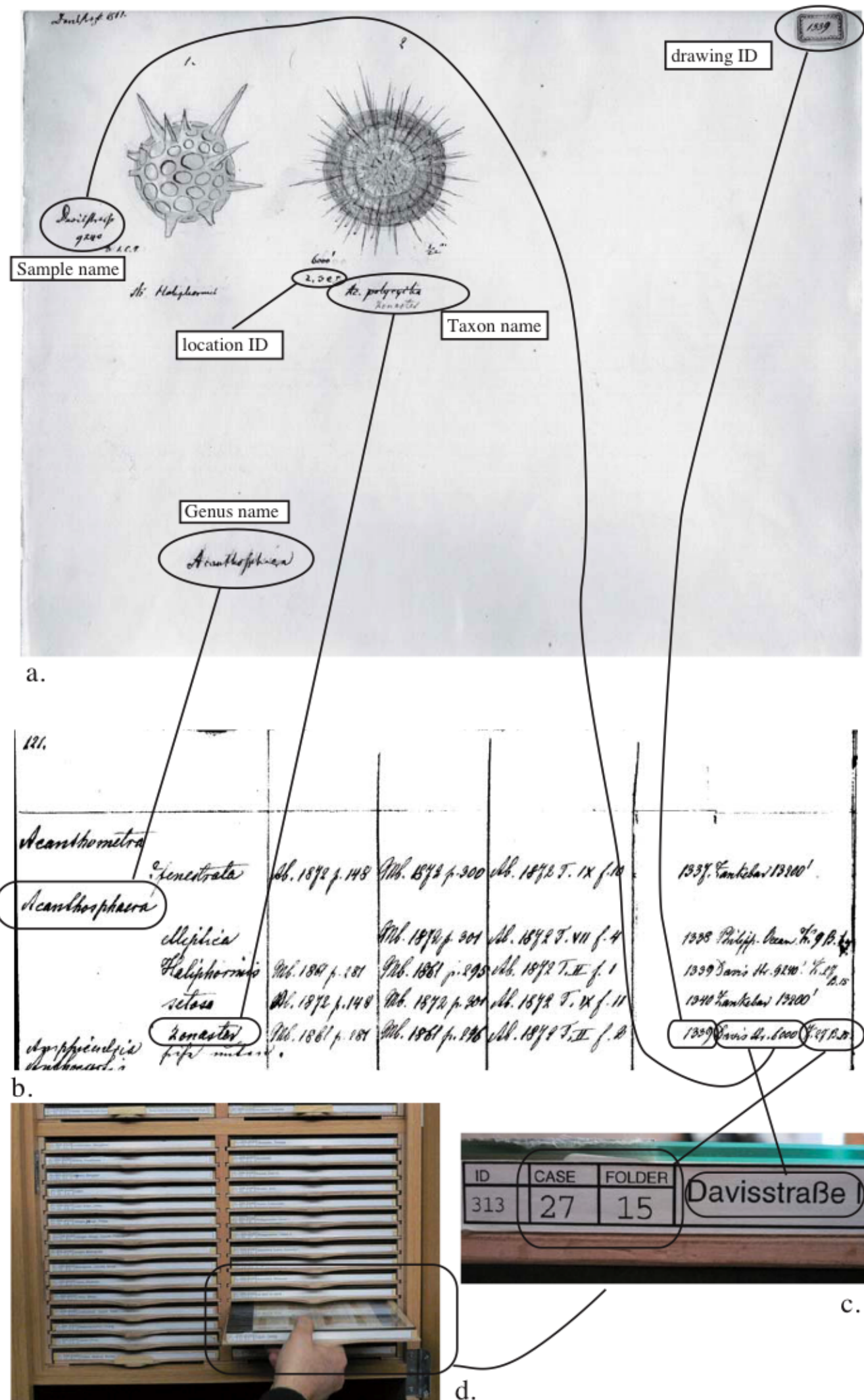


Fig. 2. Cross-reference among the Drawing, the Taxonomic Index and Micascabinets in the case of *Acanthosphaera zonaster* (drawing ID: 1339, sample ID: 2.3.e.r). (a) Drawing, (b) part of the Taxonomic Index, (c) an enlarged image of a hold to connect with the Taxonomic Index, and (d) overall view of cabinet.

Monatsberichte der Königlich Preuss. Akademie der Wissenschaften zu Berlin (1861)
 vom 28. Februar 1861. 278

Überschufs des Kalisalzes. Es muß daher außer dem Kalium, Natrium, Lithium und Caesium noch ein fünftes Alkalimetall geben, welches im Dürkheimer, Kreuznacher und anderen ähnlichen Mineralquellen in geringer, im Lepidolith aber in größerer Menge auftritt.
 Ich bin mit der Untersuchung dieses Metalles neben der des Caesiums gegenwärtig auf das Eifrigste beschäftigt.

Hr. Ehrenberg las über die Tiefgrund-Verhältnisse des Oceans am Eingange der Davisstraße und bei Island. Nebst einem Übersichts-Kärtchen.

a.

vom 28. Februar 1861. 281

	300'	6000'	9240'	10998' A	10998' B	11040'	12540'
	1	2	3	4	5	6	7
<i>Coccinodiscus subtilis subtilissimus velatus</i>	+	+	+	+			
<i>Dietyocha tripyla?</i>			+				
+ <i>Diffugia? membranacea</i>	+						

Polycystinen: 44.

+ <i>Acanthosphaera Haliphormis zonaster</i>		+	+				
+ <i>Amphicentria Salpa</i>							
** <i>Botryocampe inflata</i> = <i>Lithobotrys inflata</i> Bailey						+	
+ <i>Carpocanium Arachnodiscus cornutum</i> (<i>Halicalyptra cornuta</i> Bailey)						+	+

b.

<i>Acanthometra</i>					
<i>zonaster</i>	Abh. 1872 p. 148	Abh. 1872 p. 300	Abh. 1872 T. IX f. 10	1837 Kankabai 13300'	
<i>Acanthosphaera</i>					
<i>elliptica</i>		Abh. 1872 p. 301	Abh. 1872 T. VII f. 4	1338 Philipp. Ocean. No. 9 P. 4	
<i>Haliphormis</i>	Abh. 1861 p. 181	Abh. 1861 p. 295	Abh. 1872 T. IX f. 1	1339 Davis H. 9240' f. 27 p. 15	
<i>retosa</i>	Abh. 1872 p. 148	Abh. 1872 p. 301	Abh. 1872 T. IX f. 11	1340 Kankabai 13200'	
<i>zonaster</i>	Abh. 1861 p. 181	Abh. 1861 p. 295	Abh. 1872 T. IX f. 10	1339 Davis H. 6000' f. 27 p. 15	

296 Gesamtsitzung

15. *Acanthosphaera? zonaster*: testa globosa zonis concentricis ornata, cellulis minoribus, in toto diametro fere 12, aculeis setaceis superficialibus creberrimis, dimidium diametrum globi fere aequantibus. Zonae 4. Diameter $\frac{1}{2}$ lin. E fundo groenland. 6000' alto. (Pl. 2, Fig. 2; Abh. 1872)

Haec forma cum *Ac. elliptica* abyssi philippinensis *Fla. stellis* (planis) affine peculiare genus postulabit. De *Cenosphærinorum* familia vide 1838 p. 31.

c.

Tafel II.

a. Polycystinen.

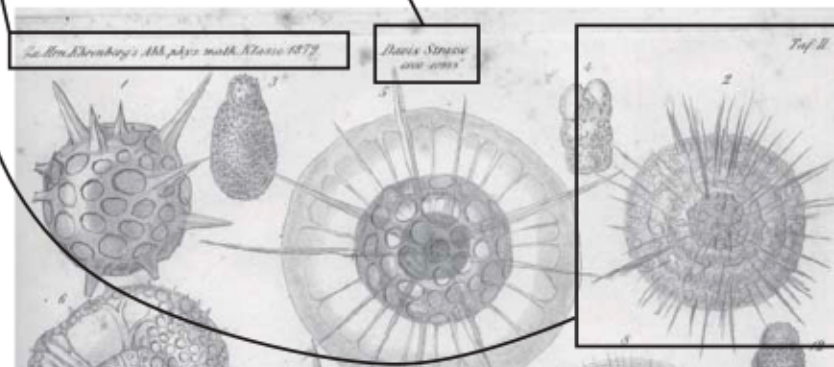
Fig. 1. *Acanthosphaera Haliphormis* 9240'

Fig. 2. *Acanthosphaera zonaster* 6000'

Fig. 10. *Pterocodon Davisianus* 9240'

Fig. 11. *Cycladophora Davisiana* 9240'

d.



e.

Fig. 3. Cross-reference among publications and the Taxonomic Index Volume in the case of *Acanthosphaera zonaster*. (a) part of the front page of Ehrenberg (1862), (b) the relevant page of the first published indication of the species, in regardless of nomen nudum, to the Taxonomic Index, (c) the relevant page of the first description of the species to the Taxonomic Index, (d) and (e) the relevant pages of the first illustrated publication of the species to the Taxonomic Index.

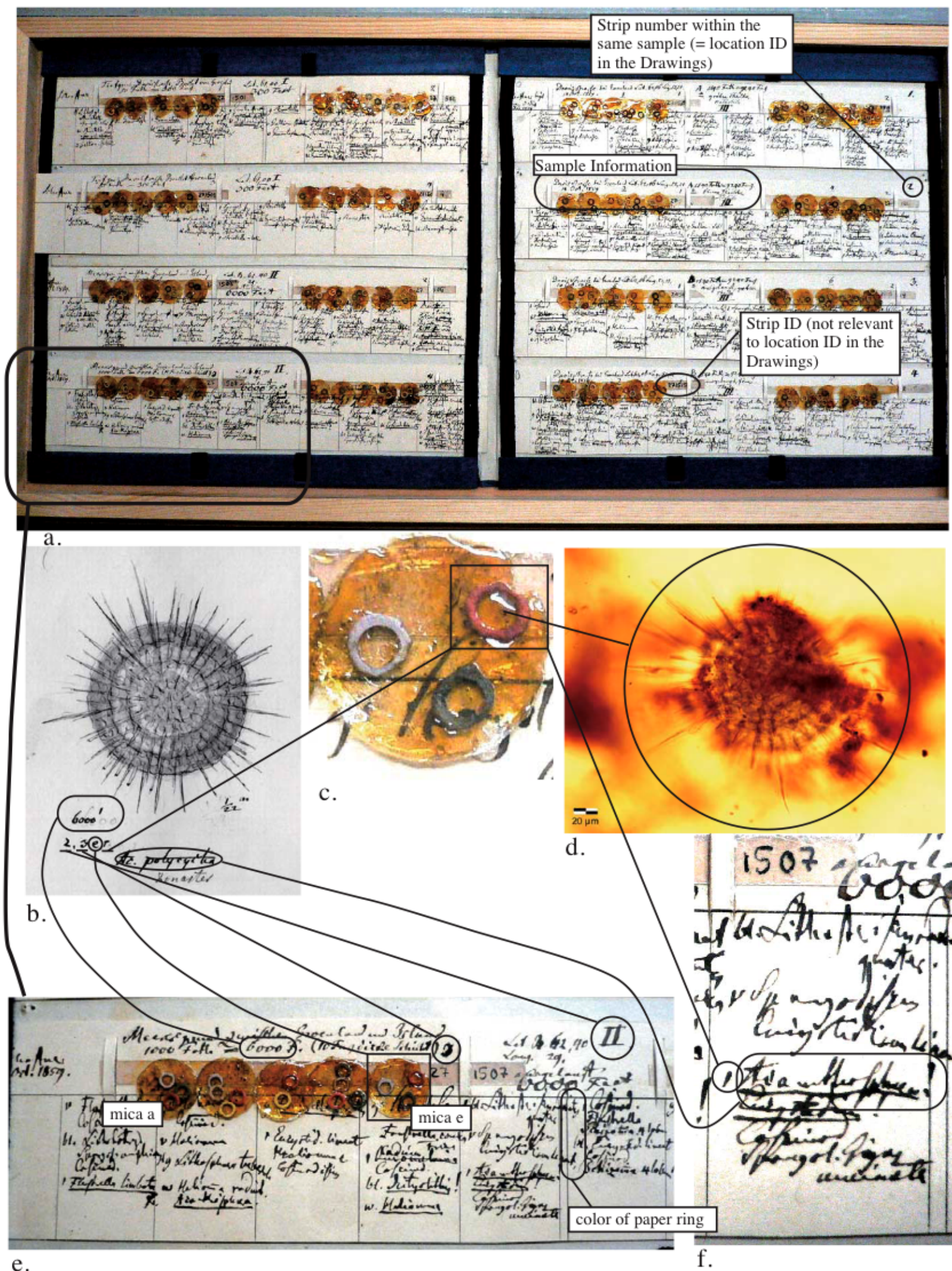


Fig. 4. Cross-reference among the mica strip, the location ID of the Drawing and the actual specimen in the case of *Acanthosphaera zonaster*. (a) the overall view of the folder (K27B15 or Case 27 Folder 15), (b) part of the Drawing, showing sample (6000' in this case), the location ID of the specimen (2.3.e.r in this case) and species name. (c) the enlarged view of the mica "e" of the mica strip ID 271507, meaning the Folder 27, Case 15, the 7th mica strip on this folder. (d) the actual specimen search followed by the source materials, (e) the overall view of a mica strip, (f) the enlarge image of the taxon names (including his working names) for the mica "7.e.r", meaning "the strip 271507, mica e, and Rot (red in English).

A A A
 B B B
 C C C C C
 D D D D D
 E E E E
 F F F F F
 G G G G G
 H H H H H H H H H H H H H H H H H
 I
 J
 K
 L L L L L L L L L
 M M M M M
 N N
 O O O O
 P P P P P P P P P
 Q
 R R
 S S S S S
 T T T
 U
 V V
 W
 X X
 Y
 Z Z Z Z

H
 (FL)

Fig. 5. Capital alphabet list from the Drawings.

K2809 Strip 8 c.bl. Halimma agena
d.bl. Flustrella concentrica
e.w. Halimma tetrag...

Region	Sample	Sketch ID	Case	Folder	Fig	Slip	Mica	position	Current name	Original junior synonym
Greece	(=Aeg Meer) 6900	1531	7	?		2	b	w	<i>Lichnocentum ventricosum</i> EHRENBERG 1873	
Greece	(=Aeg Meer) 6900	1418	32	9		3	a	r	<i>Theoconus aegaeum</i> EHRENBERG 1854c	
Greece	(=Aeg Meer) 6900	1452	31	9	*2				<i>Porodiscus spiralis</i> EHRENBERG 1840	
Greece	(=Aeg Meer) 6900	1468	31	47	32				<i>Heliodiscus sol</i> EHRENBERG 1840	
Greece	(=Aeg Meer) 6900	1468	31	47					<i>Heliosentrum solanum</i> HAECKEL 1887	1876 Halimma sol Ehrenberg
Greece	(=Aeg Meer) 6900	1485a			68?				<i>Boltopyle cribrata</i> EHRENBERG 1842	
Greece	(=Aeg Meer) 6900	1518	31	9		*	c	r	<i>Lithomitrium hirundo</i> EHRENBERG 1840	
Greece	(=Aeg Meer) 6900	1471	31	3					<i>Druppula ovalum</i> EHRENBERG 1840	
Greece	(=Aeg Meer) 6900	2329	31	9					<i>Eucyrtidium lithocampe</i> EHRENBERG 1842	
Greece	(=Aeg Meer) 6900	?			32	6			<i>Lithocampe solida</i> EHRENBERG 1872b	
Greece	(=Aeg Meer) 6900	1475?	31	9					<i>Sethodiscus radians</i> EHRENBERG 1839	
Greece	(=Aeg Meer) 6900	?	31	9					<i>Tricolampe arctum</i> EHRENBERG 1858	
Barbados	?	1348	?	?	3	3	e	m, o	<i>Astracera anstotelsi</i> EHRENBERG 1847	
Barbados	?	1469							<i>Thecosphaera medusa</i> EHRENBERG 1838	
Greece	Aeg Meer 1020	1450	32	5		2	b	o	<i>Trematodiscus bicellulosa</i> EHRENBERG 1857	
Greece	Aeg Meer 1440	?	32	7					<i>Halimma megaporum</i> Ehrenberg	
Greece	Aeg Meer 9720?	1450				3	d	w	<i>Trematodiscus bicellulosa</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1418	32	8		3	a?	v	<i>Eucyrtidium craticum</i> Ehrenberg	
Mediterranean Sea	Aegean Sea, Meer 6600	1448	32	8			d	r?	<i>Lithomitria seriolum</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1588	32	8		5	e	bl	<i>Pyrosphaera mediterranea</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1418	32	8	28	6	a	w	<i>Didymitria microcephalum</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1358	32	8			d	r	<i>Carpocanium micredon</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1594	32	8	28		e	r	<i>Pterocanium proserpineae</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1384	32	8					<i>Canosphaera porophaena</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6600	1448	32	8		67	o	r	<i>Lithomitria seriolum</i> EHRENBERG 1857	
Mediterranean Sea	Aegean Sea, Meer 6900	1418	32	9	27	3	e	bl	<i>Eucyrtidium craticum</i> Ehrenberg	
Aegina		1452			81				<i>Flustrella concentrica</i> EHRENBERG 1838	Rhopalastrum lagenosum
Aegina		1571	31	9					<i>Rhopalastrum lagenum</i> EHRENBERG 1840	
Aegina		1540	31	9					<i>Flustrella concentrica</i> EHRENBERG 1838	
Aegina		2328	31	9					<i>Halimma oblongum</i> Ehrenberg	
Aegina		2329	31	9					<i>Lithocampe hirundo</i> Ehrenberg	
Aegina		2329	31	9					<i>Halimma oblongum</i> Ehrenberg	
Aegina		2330	31	9					<i>Halimma oblongum</i> Ehrenberg	
North Atlantic	Atl. Ocean 12000	1441	27	3	22		b	v	<i>Lithocampe nereidum</i> EHRENBERG 1854a	
North Atlantic	Atl. Ocean 12000	1579	27	3	16				<i>Spongodiscus resurgens</i> EHRENBERG 1854a	
North Atlantic	Atl. Ocean 12000	1482	27	3		1	o	bl	<i>Haliphormis setosa</i> EHRENBERG 1854a	
North Atlantic	Atl. Ocean 12000	1441	27	3			d	v	<i>Eucyrtidium galathea</i> EHRENBERG 1854a	
North Atlantic	Atl. Ocean 12000	1408	27	3			a	v	<i>Dictyophimus cristae</i> EHRENBERG 1854b	
North Atlantic	Atl. Ocean 12000	1465	27	3	17	2	b	v	<i>Stauronolche hexagonum</i> EHRENBERG 1854a	
North Atlantic	Atl. Ocean 12000	1465	27	3	19?	3	d	bl	<i>Halimma beres</i> EHRENBERG 1854a	

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書き込み用(原本扱)

54°N
7°23'W

K2803
Strip 1 ~ 4/2000

Strip 5 ~ 1200W
42°35'N, 07°10'W

13 ~ 14 9980

15 ~ 16 8160

Fig. 7. One page of the working list that were actually used in our project.

Table 1. Abbreviation of color rings.

Abbreviation	German	English
bl	blau	blue
br	braun	brown
g	gelb	yellow
gr	grün	green
o	orange	orange
r	rot	red
ſ	schwarz	black
v	veilchen	violet
w	weiß	white