

# Diatom nomenclatural rules and best practices

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## ICN rules applying to diatoms limited by dates

Rules for diatom names	Art.	-1907	1908-1911	1912-1952	1953-1957	1958-1972	1973-1989	1990-2000	2001-2006	2007-2011	2012-2017	Notes
Genus name cannot be a morphological term in use of publication	20.2			✓	✓	✓	✓	✓	✓	✓	✓	
Require written description/diagnosis	38.7		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Thesis ineffective publication (see notes)	30.8				✓	✓	✓	✓	✓	✓	✓	To be effective, must include internal evidence that the author considers this effective publication, like an ISSN/ISBN.
Clear indication of rank required	37.1				✓	✓	✓	✓	✓	✓	✓	
Direct reference to basionym/replaced synonym required (see notes)	41.5				✓	✓	✓	✓	✓	✓	✓	With author, place of valid publication, page/plate reference, and date.
Type must be indicated	40.1					✓	✓	✓	✓	✓	✓	
Require Latin description/diagnosis*	44.1					✓	✓	✓	✓	✓		Except for fossil diatoms (see below)
Must include illustration (see notes)**	44.2					✓	✓	✓	✓	✓	✓	Preferably of holotype; except for fossil diatoms (see below).
When conditions for valid publication are not simultaneously met, validation publication must make full and direct reference to previous publication/s.	33.1						✓	✓	✓	✓	✓	
Herbarium/Collection must be indicated for Type (see notes)	9.22, 40.7							✓	✓	✓	✓	except for illustrations
Indication of type must include "typus/holotypus" (see notes)***	40.6							✓	✓	✓	✓	Unless it is a monotypic genus; except for fossil diatoms (see below).
Must use terms "-typus" and "designated here" for lectotypes/neotypes	7.10, 9.23								✓	✓	✓	
Type must be specimen	40.4									✓	✓	Unless it cannot be preserved.
Basionym/replaced synonym must be directly cited	41.5									✓	✓	
Can effectively publish online	29.1										✓	
Latin or English description/diagnosis*	39.2										✓	Different dates for fossil diatoms.
<b>Rules applying only to fossil diatoms</b>	<b>Art.</b>	<b>-1911</b>	<b>1912-1996</b>	<b>1996-2001</b>	<b>2002-2017</b>	<i>All rules apply from January 1 of the year, and end on December 31 of the year specified.</i>						
Illustration/Figure required**	43.2		✓	✓	✓							
Latin or English Diagnosis/description*	43.1		✓	✓	✓							
Type must be indicated & illustrated***	9.15,			✓	✓							