

1, . . . 2, . . . 1
 1 - . . . ,
 152742 . . . , . . . - ,
 2 - ,
 664003 , . . - , 3,

HANNAEA PATRICK

(BACILLARIOPHYTA)

() (. . .)
Hannaea baicalensis Genkal, Popovskaya, Kulikovskiy sp. nov. (*Bacillariophyta*).
H. arcus Her. Patrick,
 : , *Bacillariophyta*, *Hannaea baicalensis*,

Hannaea . *Fragilariaceae*

(Patrick, Reimer, 1966; Krammer, Lange-Bertalot, 1991). – *H. arcus* (Ehr.) Patrick,
Navicula arcus Ehr. (Ehrenberg, 1838), *Ceratoneis arcus* (Ehr.) Kütz. (Kützing, 1844) *Fragilaria arcus* (Ehr.) Cleve (Cleve, 1898). Bixby Jahn (2005)
Hannaea (Patrick, Reimer, 1966)
Ceratoneis,
 (Jahn, Kusber, 2005).

Hannaea
H. arcus (. . . , 2002). *Hannaea*
 . *Hannaea superiorensis* Bixby et Edlund
 (Bixby et al., 2005), *Ceratoneis chilensis* Krasske
 – *Hannaea chilensis* (Krasske) Kulikovskiy
 (. . . , 2008).
 (Krasske, 1939; Rumrich et al., 2000).

Hannaea .

(, 2002), (2007).
(2007).

(, 1975).
(Axiastar+,) (JSM-25S).

(Table

Curve 2D, Microsoft Exel).

Hannaea

(. 1, 2), *H. arcus*,

1.

	71,4-182,3	88,2-145	100-168
	8,9-12,2	11,0-13,2	10-14,7
10	12-15	11-15	12-15

2.

Hannaea

10			
<i>H. arcus</i> (=Ceratoneis arcus, Fragilaria arcus)			
15-18	15-150	4-7	, 1951
	50-120	4-5	Cleve-Euler, 1953
13-14	15-150	4-7	Patrick, Reimer, 1966
13-16(18)	15-150	4-8	Krammer, Lange-Bertalot, 1991
16-18	100-118	10	, 2002
14-16	55-136	6,5-6,8	, 2007
12,2-17	35,4-101,1	4,9-8,2	Bixby, Jahn, 2005
<i>H. chilensis</i>			
20	17-21	2-3	Lange-Bertalot et al., 1996
<i>H. superiorensis</i>			
10,3-15,1	111,8-170,2	4,9-7,8	Bixby et al., 2005

Hannaea baicalensis Genkal, Popovskaya et Kulikovskiy sp. nov. (. I, II) –
H. arcus (., 2002, c. 67, . 63).

Valvae arcuatae, apicibus capitatis, tumore centrali unilaterali. Valvae 71.4-182.3 µm in longitudino, 8.9-14.7 µm in lattitudo. Raphe absens, area axialis angusta. Striae areolatae et parallelae, biseriatae in superficie, 11-18 in 10 µm. Spinae inter strias interdum absunt. Rimoportulae polaris sessiles ad apicem valvam (tab. I; II, 1-9).

Diapositivum typicum. H1 (tab. I, 1) in coll. S.I. Genkal, Inst. Biologiae Aquarum Internarum (reg. Jaroslavlensis, pag. Borok, Russia).

Habitatio. Lacus Baikal, flumen Angara, Bratskoe aquatio, Russia.

71,4-182,3 , 8,9-14,7 . , ,
 , 11-18 10 .
 (. I; II, 1-9).

: H1 (. I, 1)

(. , .,).

H. baicalensis

H. arcus.

H. baicalensis ó

Ulothrix zonata

(5-60 . /):

5-16 °C (., 2002).

(. . 1),

10

10

H. baicalensis *H. arcus* *H. superiorensis*, *H. baicalensis*

ó . *H. chilensis*

Hannaea ó

10 (. . 2).

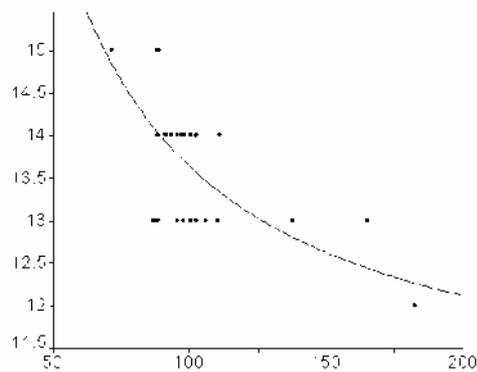
H. baicalensis -

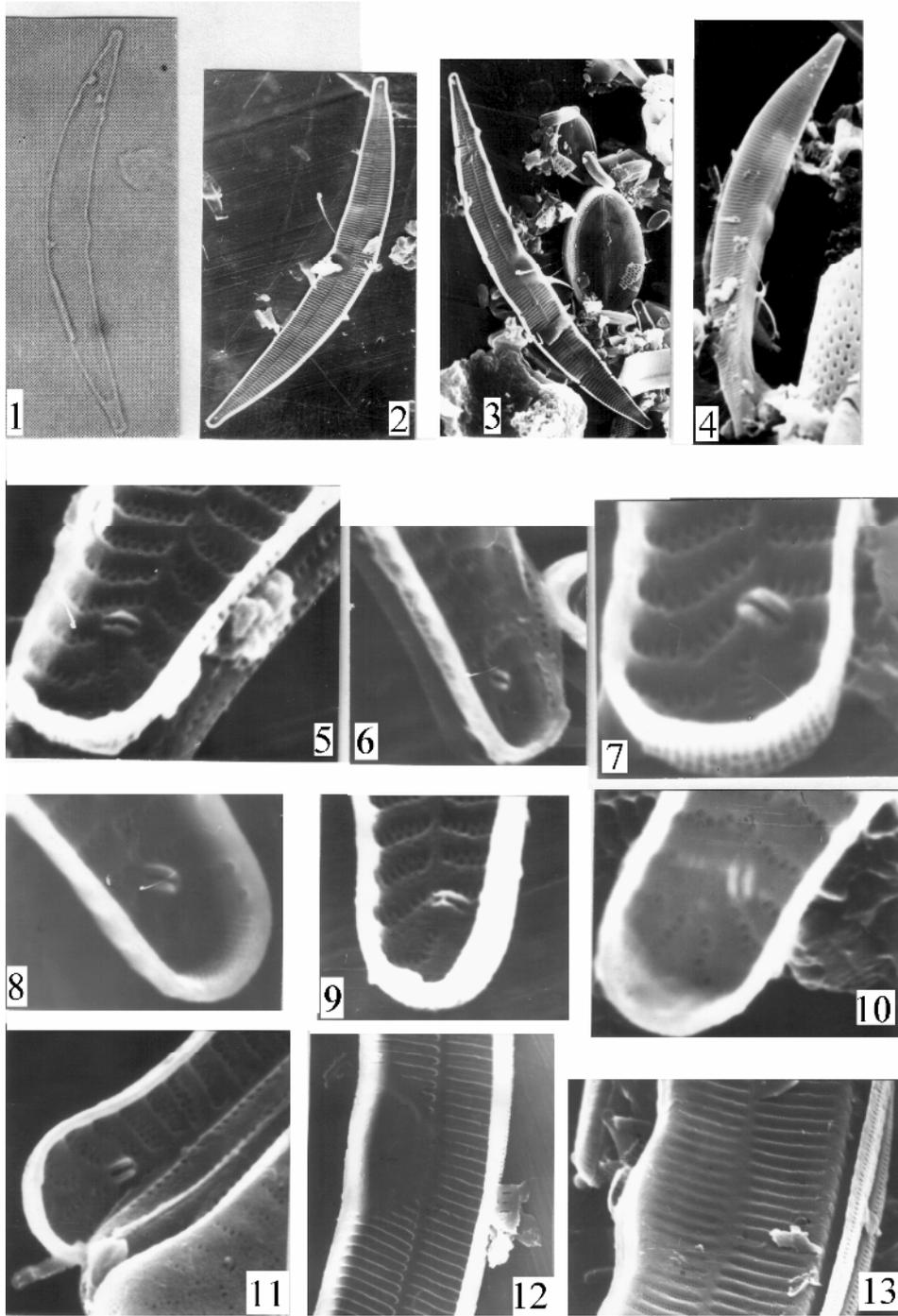
: (CV 21,3 %), (V 7,4 %),

10 (CV 5,5 %).

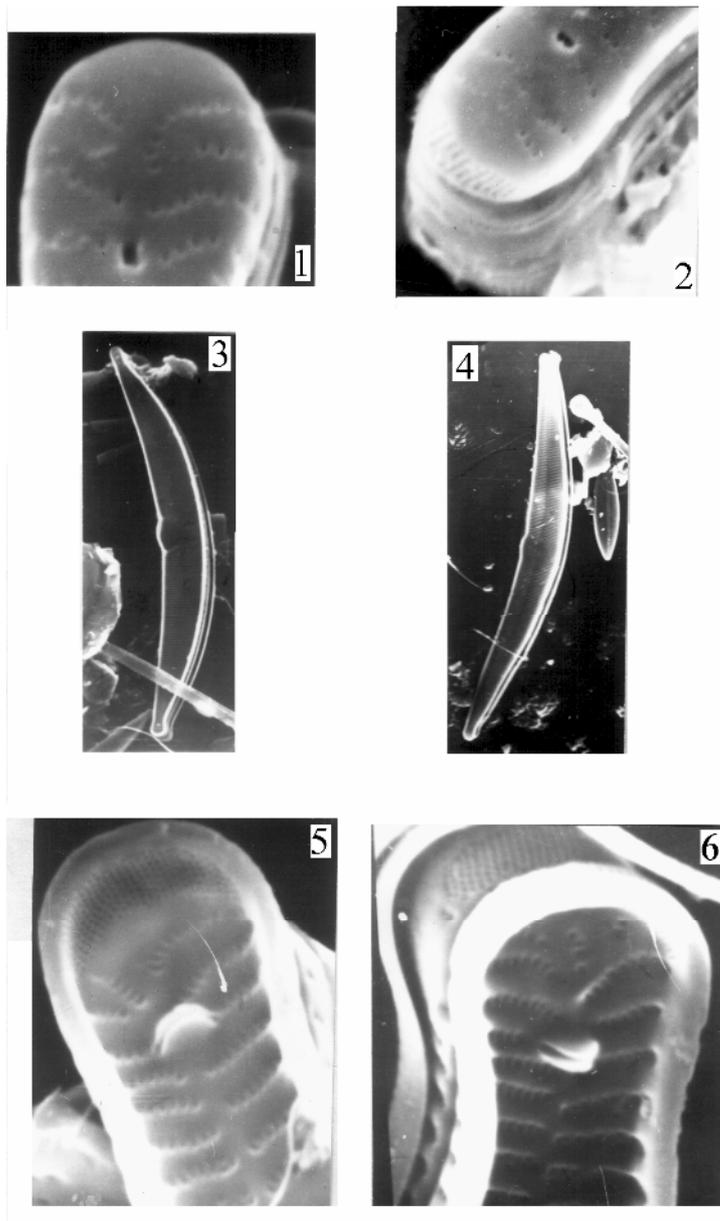
(. , ., 2003; Genkal, 2004) (., .)

2007) 10 (), (Krammer, 2002; , 2007). *H. baicalensis* (*H. arcus*, II, 10). () (. II, 6). *H. arcus* *H. Superiorensis*, *H. baicalensis*, (. II, 12 . I, 5, 9). *H. chilensis* (Lange-Bertalot et al., 1996). (. I, 5, 9; . II, 2, 5, 6), (. I, 6-8), (. I, 10, 11; . II, 1). *H. arcus* (. II, 11, 12) *H. superiorensis* (Bixby et al., 2005). *H. baicalensis* , *H. arcus* – (Round et al., 1990; Krammer, Lange-Bertalot, 1991). , *H. arcus* (. II, 10-11; – . ; , 2007). *H. chilensis* (Lange-Bertalot et al., 1996). (. I, 12), (. I, 13). *H. arcus* (. II, 10) *H. superiorensis* (Bixby et al., 2005). (. I, 4, 13) , (. II, 7, 8). *H. arcus* (Krammer, Lange-Bertalot, 1991) *H. superiorensis* (Bixby et al., 2005).



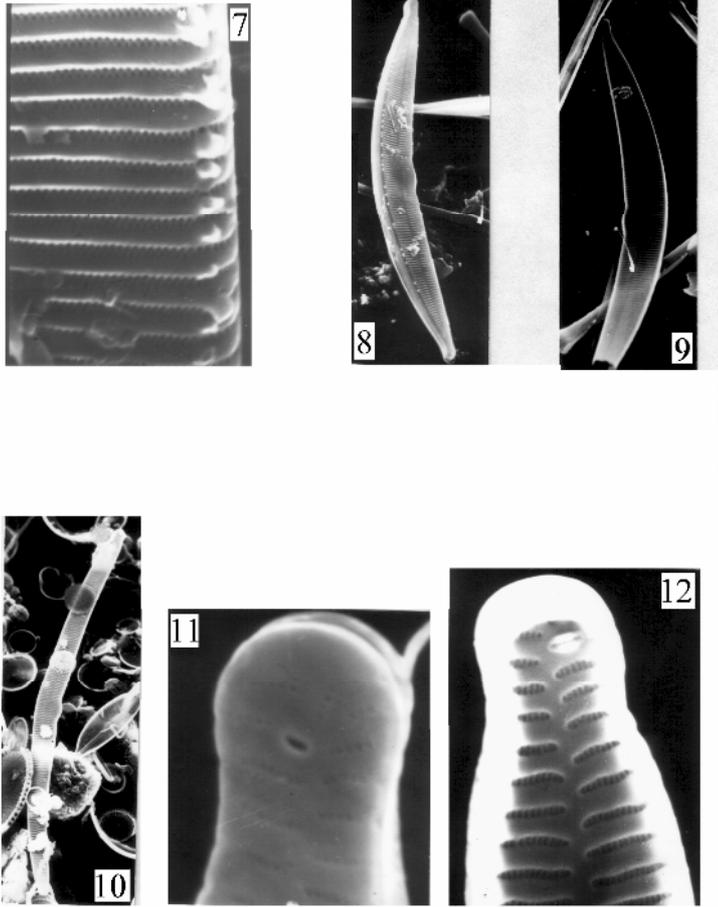


. I. *Hannaea baicalensis* Genkal, Popovskaya et Kulikovskiy . (1 - ; 2-13 -).
 2, 3 - ; 4 - ; 5-10 -
 ; 11 - ; 12 -
 ; 13 -
 : 1-4, 12, 13 - 10 ; 5-10 - 1



. II. *Hannaea baicalensis* Genkal, Popovskaya et Kulikovskiy (1-9), *H. arcus* (Ehr.) Patrick (10-12).

. 1, 2 – ; 3, 9 – ; 4, 8, 10 –
; 5, 6 – ; 7 – ; 11 –
; 12 – . 1, 2 –
; 3-7 – ; 8, 9 – ; 10-12 – . 1, 2, 5-7,
11, 12 – 1 ; 3, 4, 7-10 – 10



Hannaea,

H. arcus.

H. baicalensis.

H. arcus,

S.I. Genkal¹, G.I. Popovskaya², M.S. Kulikovskiy¹

¹I.D. Papanin Inst. of Biology of Inland Waters, Russian Academy of Sciences,
152742 Settle of Borok, Nekouzsky District, Yaroslavl Region, Russia

²Limnological Institute, Russian Academy of Sciences,
Ulan-Batorskaya, 3, 664033 Irkutsk, Russia

NEW FOR THE SCIENCE SPECIES FROM THE GENUS *HANNAEA*
PATRICK (*BACILLARIOPHYTA*)

On the basis of the electron microscopy study of samples from Lake Baikal (Russia) and related with him another ecosystems (River Angara and reservoir Bratskoe) *Hannaea baicalensis* Genkal, Popovskaya, Kulikovskiy sp. nov. was described. This species has a similarity with *H. arcus*, but the biseriate stria, rimoportula on the each end of valve and a larger breadth are the good distinctions from the another species.

Key words: Baikal, *Bacillariophyta*, *Hannaea baicalensis*, new species.

- ... //
- ... , 1975. – . 87-89.
- ... :
- ... , 2007. – 64 .
- *Asterionella ralfsii* (*Bacillariophyta*): ,
- // . – 2003. – 10. – . 100-103.
-
- Navicula* (*Bacillariophyta*) // . . – 2007. – 2. – . 20-25.
-
- 4. . – , 1951. – 618 .
- ... (Bacillariophyta)
- ... 2. . *Fragilariaceae* // . . – 2008. – 93, 2. – . 245-254.
- ... :
- ... , 2002. – 168 c.
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