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**CHAETOCEROS SOCIALIS F. RADIANS (F. SCHÜTT)
PROSCHK.-LAVR. (BACILLARIOPHYTA)**

Chaetoceros socialis f. *radians*
(F. Schütt) Proschk.-Lavr. (*Bacillariophyta*).

Ch. socialis f. *radians*

: *Chaetoceros socialis* f. *radians*,

(Ward,
Targett, 1989), (Van Alstine, 1986).

Chaetoceros.

(Hargraves, Viquez,
1985; Rines, Hargraves, 1987).

(., 1989; Orlova, Selina, 1993; .,
2004).

(., 1995; .,
, 1997; ., 1999).
– *Chaetoceros socialis* f. *radians*.

(..., 2006), .,

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(, 2008). (, 1963),

(, 1993).

Ch. socialis f. radians.

Ch. socialis f. radians.

f (Guillard, Ryther, 1962)

(70 : / ².) 20 ± 2 °, 12 : 12, (..., 2002).

0,39 0,28 /

32 4‰ 4‰.

(Brand, 1984; , 1991;

, 1993).

-65 .

1,4 7 .

0,044 . -

647, 630 750 - Shimagzu-UV 2550 664,
480 750 - .
(Parsons, Strickland, 1963; , 1990).
(, 1958).

32‰.

32‰ *Ch. socialis f. radians*
(.).

28‰
(.).
32‰.

24‰

32‰ (.).

20‰ :
(.).

16‰
(.). , ,
,
20‰ ,
-
,
12 8‰
, (.
).
Ch. socialis f.
radians .
4‰
(.).
,
Ch. socialis f. *radians*.
28‰ (6 %); 24-16‰ –
,
(19 50 %); 12-4‰
Ch. socialis f. *radians* .
,
12‰ (McLachlan, 1961; Brand, 1984; , ,
1993), – .
Ch. simplex Ostenf.
Thalassiosira oceanica Hasle, 15‰
33‰ (Brand, 1984).
Trichodesmium sp. 22-29‰ (Fu, Bell, 2003).
4‰ *Heterosigma akashiwo* Hada
Pseudonitzschia pungens (Grunow et Cleve) Hasle (, 1991, 1999).
Chaetoceros salsugineus Takano:
24‰ ,
6‰ (, 1995). *Chaetoceros muelleri*
Lemmerm., 2-
20‰ (Blinn, 1984), *Ch. armatum* West
10-45‰ (Lewin, Mackas, 1972).
Ch. socialis f. *radians* -
,

4-8‰ (, 1974).

(, , 2006).

(, , 2004), (Xu, Beardall, 1997), (Ahmad, Hellebust, 1985; Jackson et al., 1992). , *Cyclotella cryptica* Reimann, Lewin et Guillard (Liu, Hellebust, 1976), *Ditylum brightwellii* (West) Grunow *Skeletonema costatum* (Grev.) Cleve (Rijstenbil et al., 1989).

30-34‰ (, 2004).

(1971) ,

Ch. socialis f. *radians* 4 13% (- , 1963).

(1991, 1992).

Ch. socialis f. *radians* 28 24‰ 13 19 % 4- 9 15 % 7- - 6 9% 3 2‰.

Chaetoceros cf. *wighamii* Brightw., *Amphidinium carterae* Hulbert *Porphyridium* sp. 25‰ (McLachlan, 1961; De Castro Araújo, Tavano Garcia, 2005).

28 24‰, , , *Ch. socialis* f. *radians* , *Platymonas* sp. (McLachlan, 1961).

I II , (Gilmour et al., 1984).

(Dieguez-

Rojo, Gonzalez, 2003).

8‰

Scenedesmus quadricauda Bréb.

(, 1976).

Ch. socialis f. *radians*

16‰

(, 2006) (, 1991). 12‰

5-8‰

(, 1974).

(, 1975).

1. 28‰
Chaetoceros socialis f. *radians*
(32‰).

2. 24-16‰

3. 12 4‰

Ch. socialis f. *radians*

4. *C. socialis* f. *radians*,

-06-191).

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DESALINATION INFLUENCE ON THE GROWTH AND CERTAIN
BIOCHEMICAL CHARACTERISTICS OF THE *CHAETOCEROS SOCIALIS*
F. *RADIANS* (F. SCHÜTT) PROSCHK.-LAVR. (*BACILLARIOPHYTA*)

Desalination influence on diatom alga *Chaetoceros socialis* f. *radians* (*Bacillariophyta*) growth, chlorophyll *a*, carotenoid and DNA contents were studied. It was shown, that the alga was very sensitive and had low adaptation ability to desalination. We consider, that *Ch. socialis* f. *radians* haven't osmoregulation mechanisms.

Keywords: *Chaetoceros socialis* f. *radians*, diatoms, photosynthetic pigments, salinity.

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. . . *Chaetoceros salsugineus*
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. . . *Pseudonitzschia pungens* //
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. . . *Chaetoceros*
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. . . // . - 1991. - 1, 4. - . 46-51.
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...
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...
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...
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...
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// ... – 1958. – **23**, 5. – . 656-662.
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// ... – 2006. – **32**, 4. – . 241-248.
...
Tetraselmis (Platymonas) viridis // ... – 2004. – **51**, 2. – . 197-204.
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... , // ...
... – 1976. – **5**. – . 90-95.
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// (...) – : ... , 1971. – . 22-50.
... – : ... , 1974. – 236 .
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