Таблица 1. Ассоциации формации ***Leymeta arenarii***

Table 1. Associations of the formation ***Leymeta arenarii***

**Ассоциация**

**Association**

***Leymetum arenarii honckenyosum peploidis Leymetum arenarii lathyrosum japonicii***

**Местоположен ие**

**Location**

**Ф Ф Ф Ф Ф Ф Ф**

**р р р р р р р**

**Ф Ф Ф**

**р р р**

**Др Др Др Др Др Др Др Др Др Др Др Др Др Др Дв Дв Дв**

**ОПП, %**

**Projective cover,**

**%**

**Число видов Number of species**

**Номер описания: Description number авторский auth**o**r Табличный**

**table**

**50 55 50 25 40 60 40 35 30 35 35 50 50 45 50 40 35 55 50 60 60 50 65 60 50 65 70**

**3 5 5 4 3 5 3 3 4 2 5 5 5 5 5 3 4 5 3 5 5 4 6 5 5 6 6**

**10 ПГ**

**35 ПГ**

**43 ПГ**

**44 ПГ**

**45 ПГ**

**46 ПГ**

**47 ПГ**

**49 ПГ**

**36 ПГ**

**37 ПГ**

**38 ПГ**

**39 ПГ**

**40 ПГ**

**41 ПГ**

**42 ПГ**

**95 ПГ**

**96 ПГ**

**Константность**

**Constancy**

**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27**

**1 ПГ**

**2 ПГ**

**3 ПГ**

**4 ПГ**

**5 ПГ**

**6 ПГ**

**7 ПГ**

**8 ПГ**

**9 ПГ**

**94ПГ**

*Leymus arenarius* 15 20 30 20 20 30 5 5 15 15 20 30 15 10 10 15 15 30 30 25 25 20 25 30 30 40 30 V V

*Honckenya peploides* (incl. subsp. *diffusa*) *Lathyrus*

*japonicus* ( incl.

subsp. *pubescens*)

*Tripleurospermu m maritimum*

25 20 10 . 15 15 25 30 15 20 10 10 35 30 25 20 15 1 . . 1 1 5 10 10 10 20 V IV

. . 5 . . 10 . . 2 . . 5 1 1 . . . 20 20 30 25 25 30 20 15 15 20 II V

. 1 1 . . . . . . . 5 . 1 1 10 1 . + . . 5 . 3 1 . + . III III

*Juncus arcticus* . . . . . . . . 1 . . . . . . . 2 . . 5 5 . . . 10 10 2 I III

*Rumex graminifolius*

. . . . . . . . . . . . . . . . . . + + . . 1 1 + + + . IV

*Armeria scabra* . . 5 . 5 1 5 . . . + . + . . . . . . . . . . . . . 1 II .

*Rumex acetosa* 3 1 - + . . . . . . . 1 . 1 . . . . . . . . . . . . . II I

*Festuca richardsonii*

. 5 . . . . . . . . 1 5 . . . . . . . . . . . . . . . I .

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Allium*  *schoenoprasum* | . | . | . | 1 | . | . | . | . | . | . | . | . | . | . | 1 | . | 5 | . | . | . | . | . | . | . | . | . | . | I | . |
| *Tanacetum bipinnatum* | . | . | . | 3 | . | . | . | 1 | . | . | . | . | . | . | . | . | . | 5 | . | . | . | . | 1 | . | . | . | . | I | I |
| *Achillea millefolium* | . | . | . | . | . | 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | 1 | . | 1 | . | . | . | . | . | I | I |

Таблица 2. Ассоциация ***Caricetum subspathaceae potentillosum egedae***

Table 2. Association ***Caricetum subspathaceae potentillosum egedae***

**нтность**

**stancy**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Синтаксон**  **Syntaxa** |  |  | ***Caricetum subspathacea potentillosum egedae*** | | | | | |  |  |  | ***C. s. ar. h.\**** |
| **Местоположение**  **Location**  **ОПП, %**  **Projective cover, %**  **Число видов** | **Др**  **100**  **4** | **Др**  **100**  **5** | **Др**  **80**  **5** | **Др**  **100**  **5** | **Др**  **100**  **5** | **Др**  **95**  **6** | **Др**  **100**  **4** | **Дв**  **100**  **6** | | **Дв**  **100**  **8** |  | **БМ\*\***  **98-100**  **4-12** |
|  |  |  |  |  |  |  |  |  | |  |  |  |
| **Number of species** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Номер описания**  **Description number**  **авторский**  **author** | **48 ПГ** | **94 ПГ** | **50 ПГ** | **51 ПГ** | **52 ПГ** | **53**  **ПГ** | **54 ПГ** | **97**  **ПГ** | | **98 ПГ** | **Конста**  **Con** | **21-26** |
| **табличный**  **table** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |  | **8** | **9** |  | **.** |
| *Carex subspathacea* | 70 | 80 | 40 | 50 | 40 | 50 | 60 | 50 | | 50 | V | Vr-2b |
| *Potentilla egedei* | 20 | 5 | 35 | 25 | 30 | 30 | 30 | 30 | | 25 | V | V+-2b |
| *Arctantemum arcticum* subsp.  *polare* | 5 | 5 | + | 20 | 15 | 5 | . | 10 | | 5 | V | Vr-2b |
| *Stellaria humifusa* | 10 | 15 | 5 | . | 5 | 3 | 3 | 10 | | 5 | V | Vr-1 |
| *Carex glareosa* | . | . | . | . | . | 1 | 5 |  | . | 5 | II | IV1-2b |
| *Triglochin maritima* | . | . | . | . | . | . | . |  | 1 | 3 | II | . |
| *Calamagrostis deschampsioides* | . | . | . | 3 | 3 | 1 | . |  | . | . | II | V1,2a |
| *Puccinellia phryganodes* | . | 5 | 1 | . | . | . | . |  | . | . | II | IIIr,+ |
| *Dupontia psilosantha* | . | . | . | 3 | . | . | . |  | 1 | . | II | II1 |
| *Plantago schrenkii* | . | . | . | . | . | 5 | 3 |  | . | . | II | IV+-2b |
| *Agrostis straminea* | . | . | . | . | . | . | . |  | . | 5 | I | II+,1 |
| *Puccinellia pulvinata* | . | . | . | . | . | . | . |  | . | + | I | . |
| *Festuca richardsonii* | . | . | . | . | . | . | . |  | . | . | . | IIIr,+ |
| *Bryum pseudotriquetrum* | . | . | . | . | . | . | . |  | . | . | . | IV+-2a |
| *Campylium polygamum* | . | . | . | . | . | . | . |  | . | . | . | IV+-2a |

\*Сравниваемая ассоциация в эколого-флористическом подходе – ***Caricetum subspathaceae*** subass. ***arctanthemetosum hultenii*;** БМ – здесь и в столбцах других таблиц приведена сравнительная характеристика с синтаксонами маршей Большеземельской тундры на юго-восточном побережье Баренцева моря по данным О.В. Лавриненко, И.А. Лавриненко (2018)

\* Comparative Association in ecological- floristic approach – ***Caricetum subspathaceae*** subass. ***arctanthemetosum hultenii***; BM-here and in the columns of other tables, a comparative characteristic is given with the syntaxons of the marches of the Bolshezemelskaya tundra on the South-Eastern coast of the Barents sea according to O.V. Lavrinenko, I.A. Lavrinenko (2018)

Таблица 3. Ассоциации ***Caricetum glareosae potentillosum egedae, Festucetum richardsonii potentillosum egedae, Caricetum mackenziei***

Table 3. Associations ***Caricetum glareosae potentillosum egedae, Festucetum richardsonii potentillosum egedae, Caricetum mackenziei***

**Синтаксон**

**Syntaxa**

***Caricetum glareosae potentillosum egedae (1)***

***C. g. t.\****

***Festucetum richardsonii potentillosum egedae (2) C. g. f. r.\****

***Caricetum mackenziei* (*3*)**

***C. m. w.\****

**Местоположение**

**Location**

**Др Др Др Др Др БМ Др Др Др Др Др Др Др Др Др Др БМ Др Др Др БМ**

**ОПП, %**

**Projective cover, %**

**100 100 90 100 90 99-**

**100**

**90 90 90 90 100 100 100 100 100 100 100 100 90 90 100**

**Число видов**

**Number of species**

**1 6 5 7 5 10-12 7 5 9 5 6 10 6 10 11 8** 10-

16

**1 1 1 3**

**Номер описания: Description number авторский**

**author**

**55 56 57**

**ПГ ПГ ПГ**

**58 59**

**ПГ ПГ**

**. 77**

**ПГ**

**78 79 80 81 82**

**ПГ ПГ ПГ ПГ ПГ**

**83 84**

**ПГ ПГ**

**85 86**

**ПГ ПГ**

**. 60**

**ПГ**

**61 62** .

**ПГ ПГ**

**табличный**

**table**

**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21**

***1 2 3***

**Константность и покрытие**

**Constancy and coverage**

**Число описаний**

**Number of descriptions**

3 7 1 5 10 3

*Carex glareosa* 100 60 50 70 60 32b,4 + + . . + + 15 10 + + V+-2a . . . . V IV . *Potentilla egedei* . 20 30 10 20 3+-2a 55 40 25 30 80 60 35 30 65 35 Vr-1 . . . . IV V . *Festuca richardsonii* . . 1 5 . 2+ 15 40 35 40 5 10 35 30 15 30 V3-5 . . . . II V . *Carex mackenziei* . . . . . . . . . . . . . . . 90 80 90 5 . . 380-90

*Agrostis straminea* . . . . . 2r . + 1 10 10 1 . . . 10 I r . . . . . III .

*Arctanthemum arcticum* subsp. *polare Calamagrostis deschampsioides*

. . . . . 3+,1 + . 5 5 5 15 . . 1 . Vr-2a . . . . . III .

. . . . . 32a,3 10 . 5 . . 5 . . 1 5 V1-3 . . . . . III .

*Puccinellia pulvinata* . . . . . . + . + - - 1 . 5 1 . . . . . . . III . *Puccinellia phryganodes* . 1 . 5 1 . . . . . . . . . . . . . . . . . . *Salix reptans* . . . . . . . . . . . . 5 5 5 . I r . . . . . II . *Carex subspathacea* . 5 5 5 . 3+ . . . . . . . 5 5 5 I+ . . . . III II . *Stellaria humifusa* . 3 1 5 . 2+ 10 . . 1 . . 1 . . 5 III r,+ . . . . III II . *Parnassia palustris* . . . . . . . 5 . . 2 . 3 1 . Vr-2b . . . . . II . *Triglochin palustris* . . . . . 1r . . 1 . 1 . 1 1 . . . . . . . . II . *Bryum pseudotriquetrum* 22a . 5 . 10 5 . . . . . V+-2a . II *Rhodiola rosea* . . . . . . . . . . . 1 . 1 + . IV r . . . . . II . *Poa alpina* . . . . . . . 3 . . 1 . . . . . . . . . . I . *Plantago schrenkii* . 5 . . 3 3r-2b . 5 . . . . 1 . . . III r,+ . . . . II I .

*Dupontia psilosantha* . . . . . 1r . . . . . . . 1 . 1 IIr,1 . . . . . I . *Triglochin maritima* . . . 1 3 . . . . . . . . . 1 . . . . . II I . *Sanionia uncinata* . . . . . . . . . . 1 . 1 . . . IV+-2a

*Warnstorfia fluitans* . . . . . . . . . . . . . . . . . 10 10 . 3 . . 210-10

*Bryum* sp. . . . . . 1+ III+,2a

*Campylium polygamum* . . . . . 1+ . . . . . . . . . . II+ . . . . . . . *Tephroseris palustris* . . . . . 1r . . . . . . . . . . III r . . . . . . . *Aulacomnium palustre* . . . . . . . . . . . . . . . . III+-2b . . . . . . .

*Carex rariflora* . . . . . . . . . . . . . . . . III+-2b . . . . . . . *Cochlearia arctica* . . . . . . . . . . . . . . . . III r,+ . . . . . . . *Drepanocladus aduncus* . . . . . . . . . . . . . . . . I+,2a . . . . . . .

*Hennediella heimii* var.

*arctica*

. . . . . . . . . . . . . . . . I+ . . . . . . .

\* Сравниваемые синтаксоны в эколого-флористическом подходе: ***C. g. f. r.*** – ***Caricetum glareosae*** Molenaar 1974 vic. ***Calamagrostis deschampsioides*** subass. ***festucetosum rubrae, C. g. t.*** – ***Caricetum glareosae*** Molenaar 1974 vic. ***Calamagrostis deschampsioides*** subass. ***typicum, C. m. w.*** – ***Caricetum mackenziei*** Nordh. 1954 var. ***Warnstorfia fluitans***

\* Comparative syntaxons in the ecological-floristic approach: ***C. g. f. r.*** – ***Caricetum glareosae*** vic. ***Calamagrostis deschampsioides*** subass.

***festucetosum rubrae, C. g. t.*** – ***Caricetum glareosae* subass. *typicum, C. m. w.*** – ***Caricetum mackenziei*** var. ***Warnstorfia fluitans***

Таблица 4. Ассоциации ***Rumexetum aquaticus, Glyceridetum fluitans*** и ***Arctophiletum fulvae***

Table 4. Association ***Rumexetum aquaticus, Glyceridetum fluitans*** and ***Arctophiletum fulvae***

**нтно**

**stancy and coverage**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ассоциация Association Местоположение Location**  **ОПП, %**  **Projective cover, %**  **Число видов** | **Хч**  **20**  **4** | **Хч**  **15**  **4** | ***Rumexetum aquaticus* (1)**  **Хч Хч Хч Хч**  **15 10 10 5**  **2 3 3 2** | | | | **Хч**  **5**  **2** | **Хч**  **5**  **3** | ***Glycerietum fluitantis* (2)**  **Хч Хч Хч**  **50 60 80**  **6 3 5** | | | ***Arctophiletum fulvae* (3)**  **Хч Хч**  **50 40**  **1 2** | | ***A. f.\** БМ**  **90-**  **90**  **2-2** | **сть и покрытие** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Number of species** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Номер описания**  **Description number**  **Табличный**  **table** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **21-**  **22** | **Конста**  **Con** |  |  |
| **в базе данных**  **author** | **27**  **ПГ** | **28**  **ПГ** | **29**  **ПГ** | **30**  **ПГ** | **31**  **ПГ** | **32**  **ПГ** | **33**  **ПГ** | **34**  **ПГ** | **22**  **ПГ** | **23**  **ПГ** | **24**  **ПГ** | **25**  **ПГ** | **26**  **ПГ** | **.** | **1** | **2** | **3** |
| **Число описаний**  **Number of descriptions** |  |  |  |  |  |  |  |  |  |  |  |  |  | **2** | **8** | **3** | **2** |
| *Rumex aquatilis*  subsp. *protractus* | 15 | 15 | 15 | 10 | 5 | 5 | 5 | 5 | 1 | . | 1 | . | . | . | V | 21-1 | . |
| *Glyceria fluitans* | . | . | 1 | . | . | 1 | . | . | 50 | 50 | 70 | . | . | . | II | 350-70 |  |
| *Arctophila fulva* | 3 | 1 | . | . | . | . | . | . | . | 5 | . | 50 | 40 | 25 | . | 15 | 240-50 |
| *Puccinellia phryganodes* | 1 | + | . | . | . | . | 1 | + | + | . | . | . | + | 1/r | III | 1+ | 1+ |
| *Agrostis straminea* | . | + | + | + | . | 1 | . | . | . | . | . | . | . | . | III | . | . |
| *Plantago schrenkii* | . | . | . | + | + | . | . | + | . | . | . | . | . | . | II | . | . |
| *Juncus filiformis* | 1 | . | . | . | 5 | . | . | . | 1 | 3 | 1 | . | . | . | II | 31-3 | . |
| *Pedicularis palustris* | . | . | . | . | . | . | . | . | 1 | + | 1 | . | . | . | . | 3+-1 | . |
| *Carex aquatilis* (incl subsp. *stans*) | . | . | . | . | . | . | . | . | . | . | 10 | . | . | . | . | 110 | . |
| *Hippuris tetraphylla* | . | . | . | . | . | . | . | . | 1 | . | . | . | . | . | . | 11 | . |
| *Eleocharis palustris* | . | . | . | . | . | . | . | . | . | . | . | . | . | 1+ | . | . | . |

\*Сравниваемая ассоциация в эколого-флористическом походе – ***Arctophiletum fulvae*** Sambuk

1930

\*Comparative Association in ecological-floristic approach – ***Arctophiletum fulvae*** Sambuk 1930

Таблица 5. Ассоциация ***Hippurideta tetraphyllae***

Table 5. Association ***Hippurideta tetraphyllae***

**тантность**

**nstancy**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Синтаксон**  **Syntaxa**  **Местоположение**  **Location**  **ОПП, %** | ***H. tetr.***  ***ran. h.*\* (1)**  **Хч Хч**  **70 70** | | **Др**  **40** | **Др**  **40** | **Др**  **80** | **Др**  **70** | ***Hippuridetum tetraphyllae typicum***  **Др Др Др Др Др Др**  **80 70 70 50 60 65** | | | | | | **Дв**  **65** | **Дв**  **80** | **Дв**  **65** | **Дв**  **70** | ***S. –***  ***H. t.***  **БМ**  **50-** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Projective cover, %** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **100** |  |  |  |
| **Число видов**  **Number of species** | **4** | **3** | **3** | **3** | **2** | **1** | **1** | **3** | **3** | **2** | **3** | **1** | **1** | **2** | **1** | **1** | **1-4** |  | **Конс**  **Co** |  |
| **Номер описания:**  **Description number в базе данных author** | **27ПГ** | **28ПГ** | **63 ПГ** | **64 ПГ** | **65 ПГ** | **66 ПГ** | **67 ПГ** | **68 ПГ** | **69 ПГ** | **70 ПГ** | **71 ПГ** | **72 ПГ** | **73 ПГ** | **74 ПГ** | **75 ПГ** | **76 ПГ** | **.** |  |  |  |
| **табличный**  **table** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | ***9-16*** |  | ***1*** | ***2*** |
| **Число описаний**  **Nunber of descriptions** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **8** |  | **2** | **14** |
| *Hippuris tetraphylla* | 45 | 50 | 30 | 25 | 70 | 70 | 80 | 65 | 65 | 40 | 50 | 65 | 65 | 70 | 65 | 70 | V3-5 |  | 245-  50 | V |
| *Puccinellia phryganodes* | . | . | 10 | 10 | 10 | . | . | . | . | 5 | 5 | . | . | . | . | . | IIr-2b |  | . | II |
| *Ranunculus hyperboreus* | 5 | 5 | . | 5 | . | . | . | . | . | . | . | . | . | . | . | . | . |  | 25 | I |
| *Carex subspathacea* | . | . | . | . | . | . | . | 5 | 5 | . | . | . | . | 10 | . | . |  |  | . | I |
| *Warnstorfia exannulata* | 15 | 15 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | 210 | . |
| *Potentilla egedei* | . | . | 1 | . | . | . | . | . | . | . | 5 | . | . | . | . | . | . |  | . | I |
| *Myriophyllum sibiricum* | 5 | . | . | . | . | . | . | 1 | + | . | . | . | . | . | . | . | . |  | 15 | I |
| *Eleocharis palustris* | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | I2a |  | . | . |
| *Arctophila fulva* | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | II+,2a |  | . | . |
| *Potamogeton filiformis* | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | I+ |  | . | . |
| *Callitriche hermaphroditica* | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | I2a |  | . | . |
| *Agrostis*  *straminea* | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | Ir/1 |  | . | . |
|  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  |  |  | . |

\**H. tetr. ran. h.* – *Hippuridetum tetraphyllae ranunculosum hyperboreus.* Сравнительная ассоциация в эколого-флористическом подходе: *S.-H. t.* – *Scipreto-Hippuridetum tetraphyllae* Nordh. 1954.

\**H. tetr. ran. h.* – *Hippuridetum tetraphyllae ranunculosum hyperboreus.* Comparative association in ecological-floristic approach: *S.-H. t.* – *Scipreto-Hippuridetum tetraphyllae* Nordh.

1954*.*

Таблица 6. Ассоциация ***Salicetum reptantis parnassiosum palustris***

Table 6. Association ***Salicetum reptantis parnassiosum palustris***

|  |  |  |  |
| --- | --- | --- | --- |
| **Ассоциация**  **Association** | ***Salicetum reptantis parnassiosum palustris*** | ***P. p. –***  ***S.r.*** | **Константность**  **Constancy** |
| **Местоположение**  **Location**  **ОПП, %**  **Projective cover, %**  **Число видов**  **Number of species** | **Хч Хч Хч Хч Хч Хч Хч Хч Хч Хч Хч**  **100 100 100 100 100 95 100 100 100 100 90**  **16 11 13 11 13 13 9 10 10 9 11** | **БМ** |
| **100** |
| **11-28** |
| **Номер описания: Description number авторский**  **author**  **табличный**  **table** | **11 12 13 14 15 16 17 18 19 20 21**  **ПГ ПГ ПГ ПГ ПГ ПГ ПГ ПГ ПГ ПГ ПГ**  **1 2 3 4 5 6 7 8 9 10 11** | **.** |
| **1-33** |
| *Salix reptans Parnassia palustris Festuca richardsonii*  *Rhodiola rosea*  *Empetrum nigrum* subsp.  *hermaphroditum Agrostis straminea Hierochloe odorata*  *Vaccinium vitis-idea Pedicularis palustris Allium schoenoprasum Dicranum* sp*.*  *Juncus gerardii Astragalus frigidus Equisetum arvense*  *Arctantemum arcticum* subsp.  *polare*  *Sanionia uncinata Dupontia psilosantha Oxytropis sordida Chamaepericlymenum suecicum*  *Ligularia sibirica* subsp.  *arctica*  *Geum rivale*  *Triglochin maritima Primula finmarchica Polytrichum juniperinum Sphagnum* sp*. Calamagrostis deschampsioides*  *Carex rariflora*  *Triglochin palustre*  *Polygonum bistorta Rumex acetosa Stellaria humifusa*  *Drepanocladus aduncus*  *Comarum palustre*  *Carex aquatilis* (incl. subsp.  *stans*)  *Carex subspathaceae*  *Potentilla egedii Plantago schrenkii Carex glareosa Psoroma hypnorum Cladonia coccifera C. macrophylla Scapania obcordata*  *Mycobilimbia hypnorum*  *Stereocaulon glareosum*  *Aulacomnium palustre* | 30 30 25 30 25 35 40 20 35 25 35  25 20 10 10 15 15 20 25 20 15 20 | V+-4  V+-2a  V+-3  IVr,+ IVr-2a  IIIr-2a  .  .  .  .  .  .  .  . IVr-1  V+-4  IIr-  .  .  IIr-2b  .  . Ir,+ IIr-1  .  V+-3  IV+-3  Ir,1  .  . IIr  .  IIr-3  II+,1  I1-2b IIr,+ IIr-2a IVr-3  II+,1  II+,1  I+ I+-2a I+  I+-2a  I+,1 | V V IV  III  III  III III III III III III III III II II  II II II II  II II  II II I  I  I  I I I I I I I I  .  .  .  .  .  .  .  .  .  .  . |
| 15 . 15 20 . . 10 20 . 20 +  . . . . + 5 5 . 5 5 1  10 . . 10 10 15 . . 10 . .  5 . . 5 5 5 . . . . 5  . 10 10 . . . 15 . . + +  . 10 . 10 . 10 . 10 10 . .  + . 5 . 10 + + . . . .  5 . 5 5 . . . . 10 . 10  + + + . + . - . . + +  + . + . + . + . + . .  + . 15 . + + . 10 . + .  . 10 . . 10 . . . . 5 5  . 5 . 5 . 5 . . + . .  . 5 5 . . . . . . 10 .  3 . . . 5 + . . . . .  10 . . + . + . + . . .  . 5 5 . . . . . . 5 .  . 1 1 . . . 1 . . . 5  + . . + . + . . . . .  . . + + . . + . + . .  . + + . . . + . . . .  . . . . . . . 1 . . 1  . . . . . . . 2 . . 1  . . . . 3 1 . . . . .  . 10 . . + . . . . . .  . . . . . + . . + . .  . . . . . . 1 + . . .  + + . . . . . . . . .  . 1 + . . . . . . . .  + . . . . . . 1 . . -  . . . . . . 1 . . . 1  + . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . .  . . . . . . . . . . . |

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| *Cerastium jenisejense* | . | . | . | . | . | . | . | . | . | . | . | II+-3 | . |
| *Peltigera ponojensis* | . | . | . | . | . | . | . | . | . | . | . | IIr-1 | . |
| *Comastoma tenellum* | . | . | . | . | . | . | . | . | . | . | . | IIr-1 | . |
| *Carex salina* | . | . | . | . | . | . | . | . | . | . | . | Ir,+ | . |
| *Bryum sp. (*incl. *B. salinum s. l.)* | . | . | . | . | . | . | . | . | . | . | . | II1-3 | . |
| *B. pseudotriquetrum* | . | . | . | . | . | . | . | . | . | . | . | III+-2a | . |
| *Cardamine pratensis* | . | . | . | . | . | . | . | . | . | . | . | III+-3 | . |
| *Campylium polygamum* | . | . | . | . | . | . | . | . | . | . | . | IIr,+ | . |
| *Montia fontana* | . | . | . | . | . | . | . | . | . | . | . | IIr | . |
| *Stellaria crassifolia* | . | . | . | . | . | . | . | . | . | . | . | IIr- | . |
| *Calliergon cordifolium* | . | . | . | . | . | . | . | . | . | . | . | Ir,1 | . |
| *Cochlearia arctica* | . | . | . | . | . | . | . | . | . | . | . | Ir | . |
| *Euphrasia frigida* | . | . | . | . | . | . | . | . | . | . | . | Ir-1 | . |
| *Tephroseris palustris* | . | . | . | . | . | . | . | . | . | . | . | Ir-2a | . |
| *Armeria scabra* | . | . | . | . | . | . | . | . | . | . | . | Ir,+ | . |
| *Rumex lapponicus* | . | . | . | . | . | . | . | . | . | . | . | Ir-1 | . |
| *Cetrariella delisei* | . | . | . | . | . | . | . | . | . | . | . | Ir | . |
| *Cladonia cariosa* | . | . | . | . | . | . | . | . | . | . | . | I+,1 | . |
| *C. gracilis subsp. elongata* | . | . | . | . | . | . | . | . | . | . | . | Ir,+ | . |
| *C. pocillum* | . | . | . | . | . | . | . | . | . | . | . | Ir-1 | . |
| *C. stricta* | . | . | . | . | . | . | . | . | . | . | . | Ir-1 | . |
| *Polytrichastrum alpinum var.*  *fragile* | . | . | . | . | . | . | . | . | . | . | . | Ir,+ | . |
| *Caltha palustris* | . | . | . | . | . | . | . | . | . | . | . | Ir | . |
| *Leptobryum pyriforme* | . | . | . | . | . | . | . | . | . | . | . | Ir,+ | . |

\* Сравниваемая ассоциация в эколого-флористическом подходе***: P. p. s. r.*** – ***Parnassio palustris– Salicetum reptantis*** Matveyeva et Lavrinenko ex Lavrinenko et Lavrinenko ass. nov. hoc loco 2018***.***

**\***Comparative Association in ecological-floristic approach: ***P. p. s. r.*** – ***Parnassio palustris–***

***Salicetum reptantis*** Matveyeva et Lavrinenko ex Lavrinenko et Lavrinenko ass. nov. hoc loco

2018***.***

Таблица 7. Сводная таблица синтаксонов южного побережья Печорской губы

Table 7. Summary table of syntaxons of the southern coast of the Pechora Bay

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ассоциация**  **Association** | ***L. ar. h.*** | ***L. ar. l.*** | ***C. s.*** | ***C. gl. p. eg.*** | ***F. r. p. eg.*** | ***C. m.*** | ***H. t. s.*** | ***H. t. r. h.*** | ***R. aq.*** | ***G. f.*** | ***Ar. f.*** | ***S. r. par. p.*** | | | |
| **Диагностические виды ассоциаций / Diagnostic types of associations** | | | | | | | | | | | | | | | |
| *Leymus arenarius* | V 5-30 | V20-40 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Honckenya peploides* (incl. subsp.  *diffusa*) | V 10-35 | IV1-20 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Lathyrus japonicus* (incl. subsp.  *pubescens*) | II 1-5 | V15-30 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Carex subspathacea* | . | . | V40-70 | III 5-5 | II5-5 | . | I5-10 | . | . | . | . |  |  |  | . |
| *Potentilla egedei* | . | . | V5-30 | IV10-30 | V25-80 | . | I1-5 | . | . | . | . |  |  |  | . |
| *Carex glareosa* | . | . | II1-5 | V50-100 | IV+-15 | . | . | . | . | . | . |  |  |  | . |
| *Festuca richardsonii* | I 1-5 | . | . | II1-5 | V5-40 | . | . |  | . | . | . |  | IV10-20 | | |
| *Carex mackenziei* | . | . | . | . | . | 380-90 | . |  | . | . | . |  |  |  | . |
| *Hippuris tetraphylla* | . | . | . | . | . | . | V25-70 | 245-50 | . | 11 | . |  |  |  | . |
| *Ranunculus hyperboreus* | . | . | . | . | . | . | I5 | 15-5 | . |  | . |  |  |  | . |
| *Rumex aquaticus*  subsp. *protractus* | . | . | . | . | . | . | . | . | V5-15 | 21-1 | . |  |  |  | . |
| *Glyceria fluitans* | . | . | . | . | . | . | . | . | II1-1 | 350-70 | . |  |  |  | . |
| *Arctophila fulva* | . | . | . | . | . | . | . | . | 1-3 | 15 | 240-50 |  |  |  | . |
| *Salix reptans* | . | . | . | . | II5-5 | . | . | . | . | . | . |  | V20-40 | | |
| *Parnassia palustris* | . | . | . | . | II1-5 | . | . | . | . | . | . |  | V10-25 | | |
| **Константные виды\* / Constant species** | | | | | | | | | | | | | | | |
| *Tripleurospermum maritimum* | **III 1-10** | **III+-5** | . | . | . | . | . | . | . | . | . | . |  |  |  |
| *Juncus arcticus* | I 1-2 | **III2-10** | . | . | . | . | . | . | . | . | . | . |  |  |  |
| *Stellaria humifusa* | . | . | **V3-15** | **III1-5** | II1-10 | . | . | . | . | . | . | I+-1 | | |  |
| *Calamagrostis deschampsioides* | . | . | II1-3 | . | **III1-10** | . | . | . | . | . | . | I1-3 | |  |  |
| *Agrostis straminea* | . | . | I5 |  | **III+-10** | . | . | . | II+-1 | . | . | **III5-5** | | | |
| *Arctanthemum arcticum* subsp.  *polare* | . | . | **V+-20** | . | **III+-15** | . | . | . | . | . | . | II+-5 | | | |
| *Allium schoenoprasum* | I1-5 |  | . | . | . | . | . | . | . | . | . | **III5-10** | | | |
| *Rhodiola rosea* | . | . | . | . | II+-1 | . | . | . | . | . | . | **III+-5** | | | |
| *Pedicularis palustris* | . | . | . | . | . | . | . | . |  | 3+-1 | . | **III+-10** | | | |
| *Empetrum nigrum* subsp.  *hermaphroditum* | . | . | . | . | . | . | . | . | . | . | . | **III10-15** | | | |
| *Hierochloe odorata* | . | . | . | . | . | . | . | . | . | . | . | **III+-15** | | | |
| *Vaccinium vitis-idea* | . | . | . | . | . | . | . | . | . | . | . | **III10-10** | | | |
| *Dicranum* sp*.* | . | . | . | . | . | . | . | . | . | . | . | **III+-+** | | | |
| *Juncus gerardii* | . | . | . | . | . | . | . | . | . | . | . | **III+-+** | | | |
| *Astragalus frigidus* | . | . | . | . | . | . | . | . | . | . | . | **III+-15** | | | |
| **Прочие виды / Other species** | | | | | | | | | | | | | | | |
| *Rumex graminifolius* | . | II+-1 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Armeria scabra* | II 1-5 | I1 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Rumex acetosa* | II+-3 |  | . | . | . | . | . | . | . | . | . |  | I+-+ | | |
| *Tanacetum bipinnatum* | I1-3 | I1-5 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Achillea millefolium* | I1 | I1 | . | . | . | . | . | . | . | . | . |  |  |  | . |
| *Triglochin maritima* | . | . | II1-3 | II1-3 | I1 | . | . | . | . | . | . |  | II+-+ | | |
| *Puccinellia phryganodes* | . | . | II1-5 | . |  | . | II5-10 | . | III+-1 | 1+ | 1+ |  |  |  | . |
| *Dupontia psilosantha* | . | . | II1-3 | . | I1-1 | . | . | . | . | . | . |  | II+-5 | | |
| *Plantago schrenkii* | . | . | II3-5 | II3-5 | I1-5 | . | . | . | III+-1 | . | . |  |  |  | . |
| *Puccinellia pulvinata* | . | . | I+ | . | III+-5 | . | . | . | . | . | . |  |  |  | . |
| *Bryum pseudotriquetrum* | . | . | . | . | II5-10 | . | . | . | . | . | . |  |  |  | . |
| *Triglochin palustre* | . | . | . | . | II1-1 | . | . | . | . | . | . |  | I+-+ | | |
| *Bryum pseudotriquetrum* | . | . | . | . |  | . | . | . | . | . | . |  |  |  | . |
| *Poa alpina* | . | . | . | . | I1-3 | . | . | . | . | . | . |  |  |  | . |
| *Sanionia uncinata* | . | . | . | . | I1-1 | . | . | . | . | . | . |  | II5-10 | | |
| *Warnstorfia fluitans* | . | . | . | . | . | 210-10 | . | . | . | . | . |  |  |  | . |
| *Warnstorfia exannulata* | . | . | . | . | . | . | . | 210 | . | . | . |  |  |  | . |
| *Drepanocladus aduncus* | . | . | . | . | . | . | . | . | . | . | . |  | I+-1 | | |
| *Myriophyllum sibiricum* | . | . | . | . | . | . | I+-1 | 15 | . | . | . |  |  |  | . |
| *Juncus filiformis* | . | . | . | . | . | . | . | . | II1-5 | 31-3 | . |  |  |  | . |
| *Carex aquatilis* (incl. subsp. *stans*) | . | . | . | . | . | . | . | . | . | 110 | . |  |  | I+ | |
| *Equisetum arvense* | . | . | . | . | . | . | . | . | . | . | . |  | II5-10 | | |
| *Oxytropis sordida* | . | . | . | . | . | . | . | . | . | . | . |  | II+-10 | | |
| *Chamaepericlymenum suecicum* | . | . | . | . | . | . | . | . | . | . | . |  | II5-5 | | |
| *Geum rivale* | . | . | . | . | . | . | . | . | . | . | . |  | II+-+ | | |
| *Primula finmarchica* | . | . | . | . | . | . | . | . | . | . | . |  | II+-+ | | |

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| *Polytrichum juniperinum* | . | . | . | . | . | . | . | . | . | . | . | I1-2 |
| *Sphagnum* sp*.* | . | . | . | . | . | . | . | . | . | . | . | I1-2 |
| *Carex rariflora* | . | . | . | . | . | . | . | . | . | . | . | I+-10 |
| *Ligularia sibirica* subsp. *arctica* | . | . | . | . | . | . | . | . | . | . | . | II1-5 |
| *Polygonum bistorta* | . | . | . | . | . | . | . | . | . | . | . | I+-1 |
| *Comarum palustre* |  |  |  |  |  |  |  |  |  |  |  | I1-1 |
| Всего видов в ассоциации  Total species of association | 11 | 9 | 12 | 7 | 19 | 2 | 5 | 4 | 7 | 8 | 2 | 34 |

**Сокращения:** *L. ar. h. p.* – *Leymetum arenarii honckenyosum peploidis*, *L. ar. l.* – *Leymetum arenarii lathyrosum japonicii*, *C. s.* – *Caricetum subspathaceae potentillosum egedae, C. g. p. eg.* – *Caricetum glareosae potentillosum egedae, F. r. p. eg.* – *Festucetosum richardsoniio potentillosum egedae, C. m.* – *Caricetum mackenziei, H. t. s.* – *Hippuridetum tetraphyllae* subass. *typicum, H. t. r. h.* – *Hippuridetum tetraphyllae* subass. *ranunculosum hyperboreum, R. aq.* – *Rumexetum aquaticus, G. f.* – *Glycerietum fluitantis, A. f.* – *Arctophiletum fulvae*, *S. r. par. p.* – *Salicetum reptantis parnassiosum palustris*.

**Reductions:** *L. ar. h. p.* – *Leymetum arenarii honckenyosum peploides*, *L. ar. l.* – *Leymetum arenarii lathyretosum japonicii*, *C. s.* – *Caricetum subspathaceae potentillosum egedii, C. g. p. eg.* – *Caricetum glareosae potentillosum egedii, F. r. p. eg.* – *Festucetosum rubrae potentillosum egedii, C. m.* – *Caricetum mackenziei, H. t. s.* – *Hippuridetum tetraphyllae* subass. *subpurum, H. t. r. h.* – *Hippuridetum tetraphyllae* subass. *ranunculosum hyperboreum, R. aq.* – *Rumexetum aquaticus, G. f.* – *Glyceridetum fluitans, A. f.* – *Arctophiletum fulvae*, *S. r. par. p.* – *Salicetum reptantis parnassiosum palustris*.

\*– Константные виды ассоциаций приведены жирным шрифтом

\*– Constant species of associations are shown in bold