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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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**Реализация комплексной программы мониторинга экологического состояния Обской губы в зоне влияния проекта «Ямал СПГ» в 2023-2024 годах**

**ОТЧЕТ ПО ЭТАПУ 4**

**«Сбор автоматических донных станций»**

*Итоговый отчет по данным 2023-2024 гг.*

Книга 2. Текстовые приложения. Часть 3.

***ЗАКАЗЧИК: ОАО «Ямал СПГ»***

г. Москва, 2024

# СОСТАВ ОТЧЕТНОЙ ДОКУМЕНТАЦИИ

|  |  |  |  |
| --- | --- | --- | --- |
| **№ Книги** | **Наименование** | | **Примечание** |
| 1 | Отчет по этапу 4 «Сбор автоматических донных станций»  Итоговый отчет по данным 2023-2024 гг.  Книга 1. Текст отчета | |  |
| 2 | Отчет по этапу 4 «Сбор автоматических донных станций»  Итоговый отчет по данным 2023-2024 гг.  Книга 2. Текстовые приложения | Часть 1. |  |
| Часть 2. |
| Часть 3. |
| 3 | Отчет по этапу 4 «Сбор автоматических донных станций»  Итоговый отчет по данным 2023-2024 гг.  Книга 3. Графические приложения | |  |

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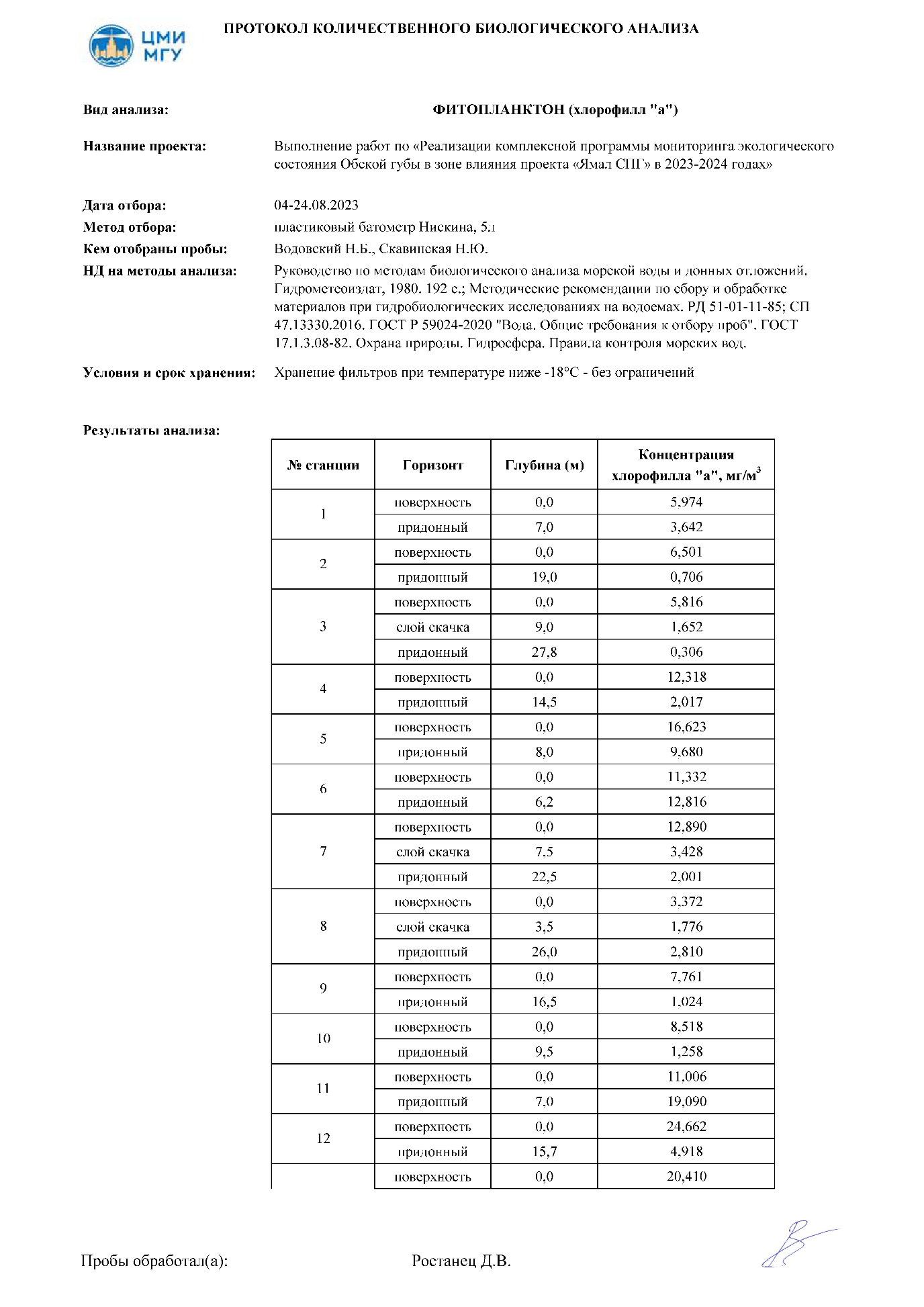
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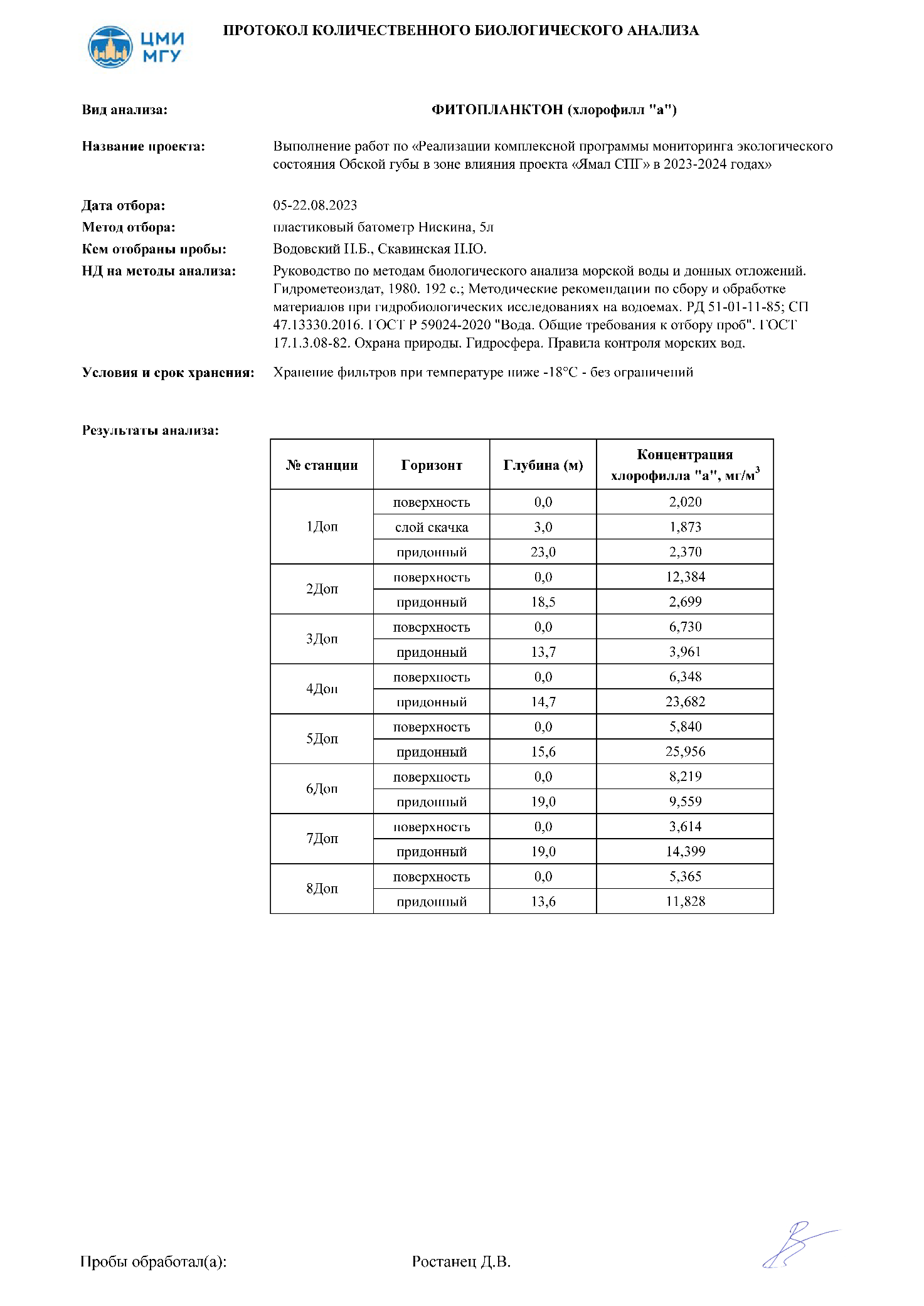
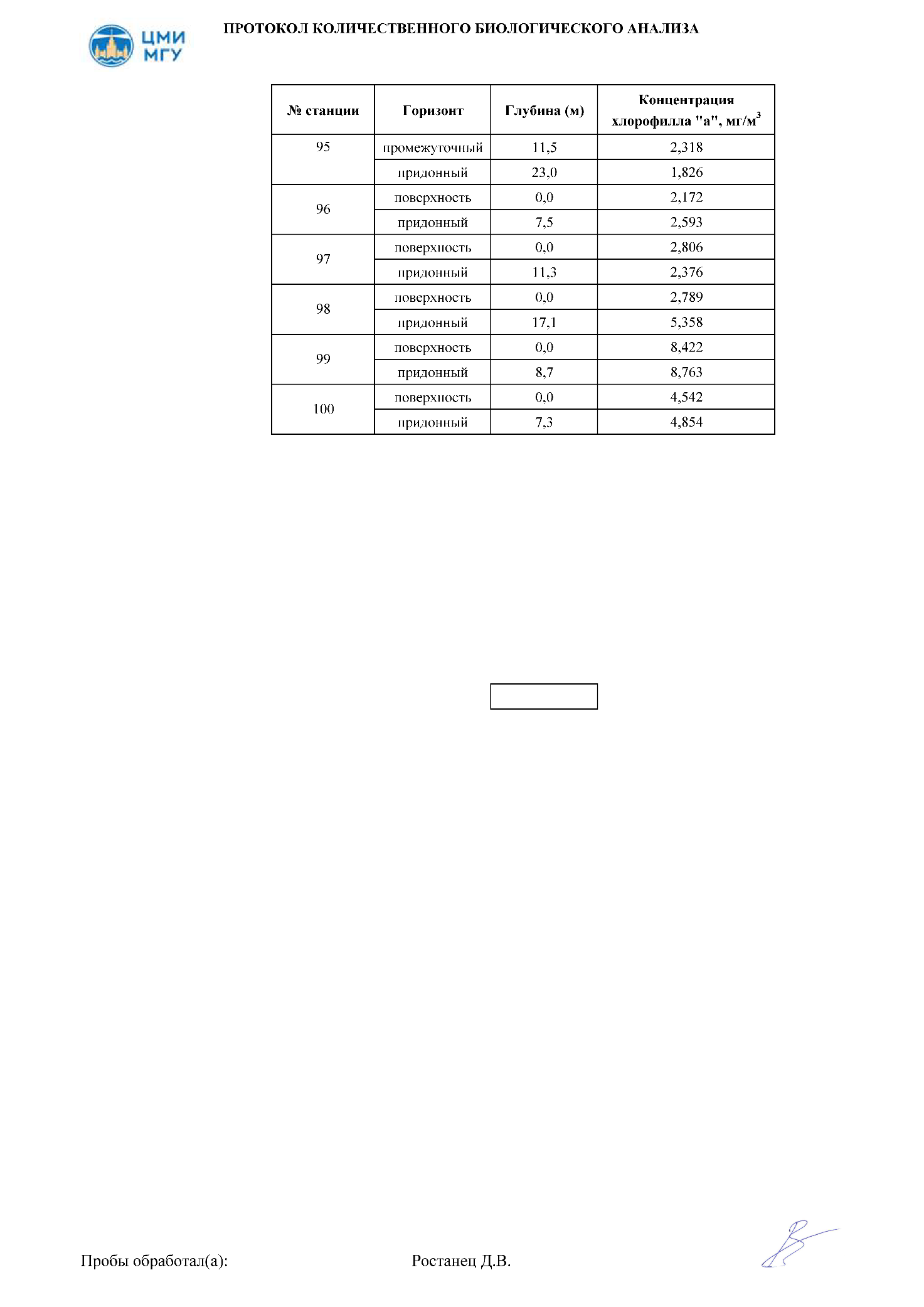
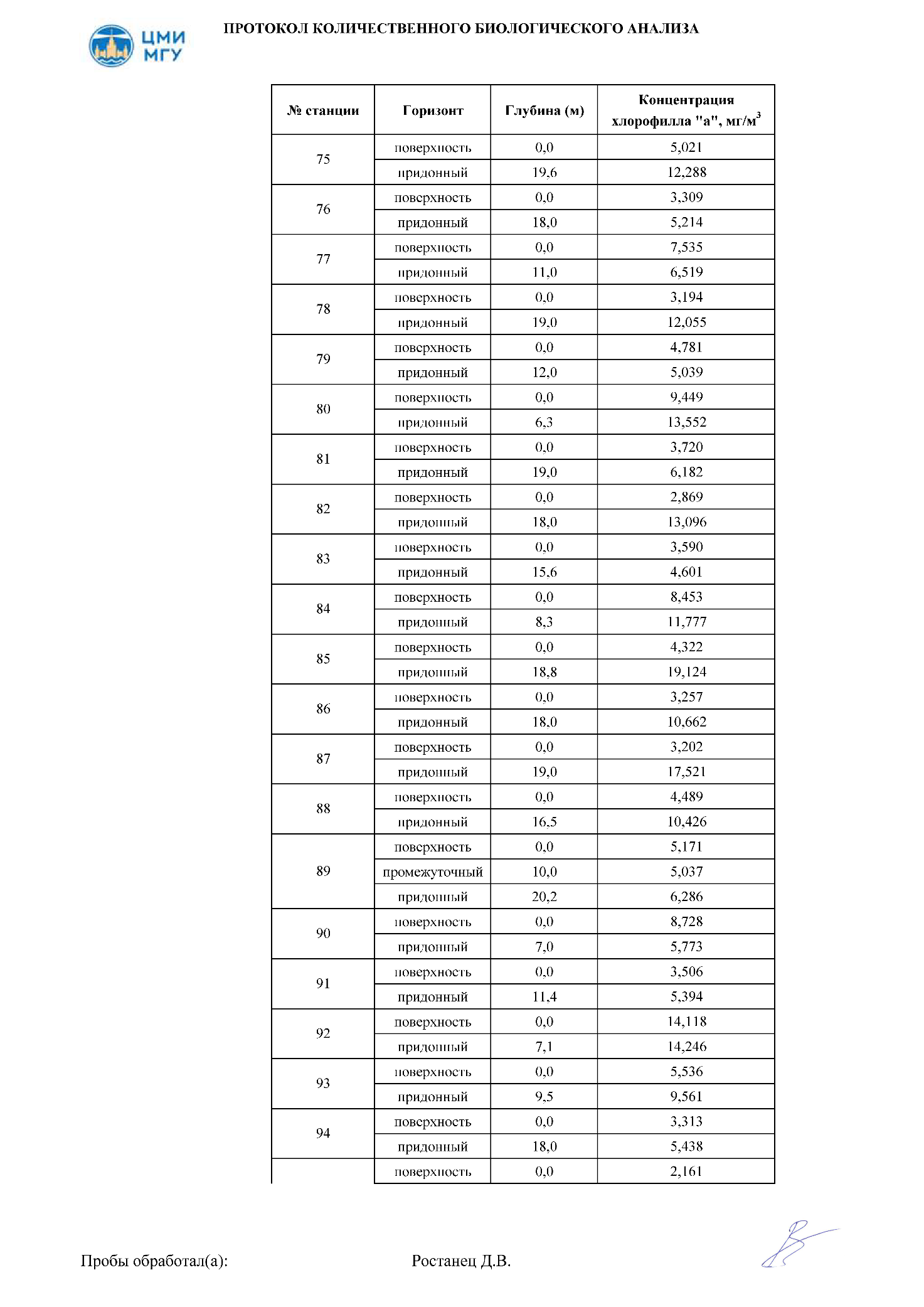
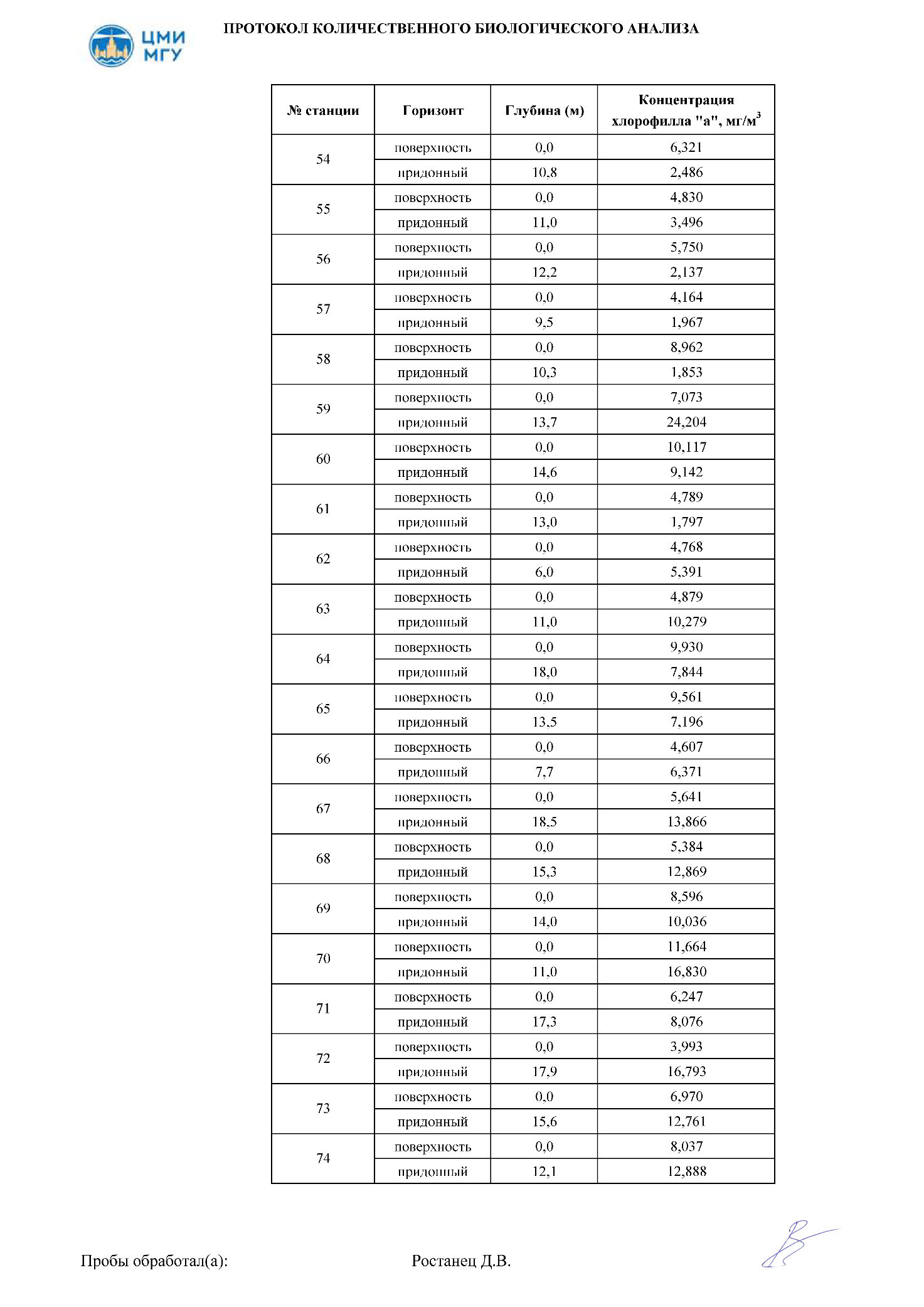
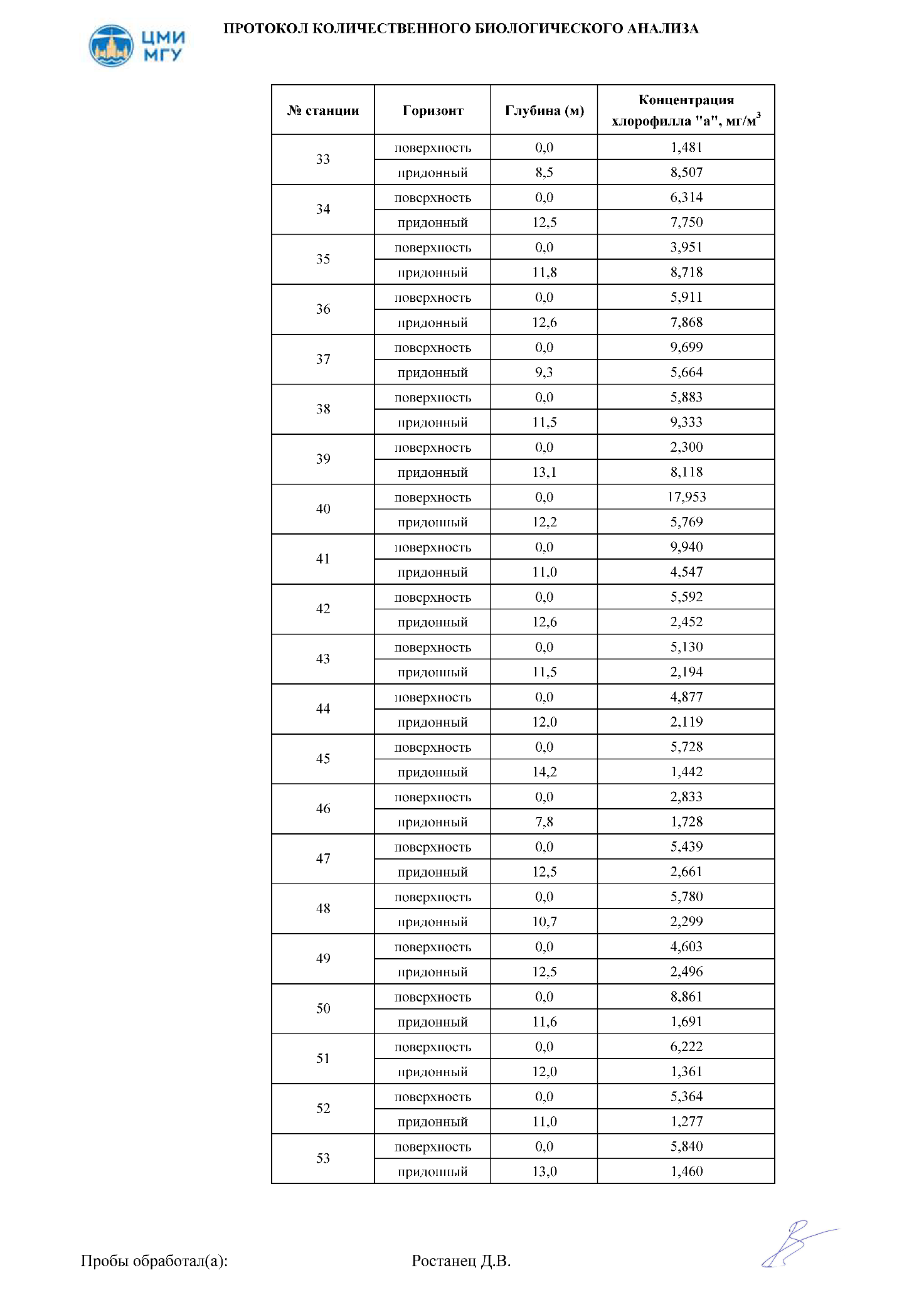
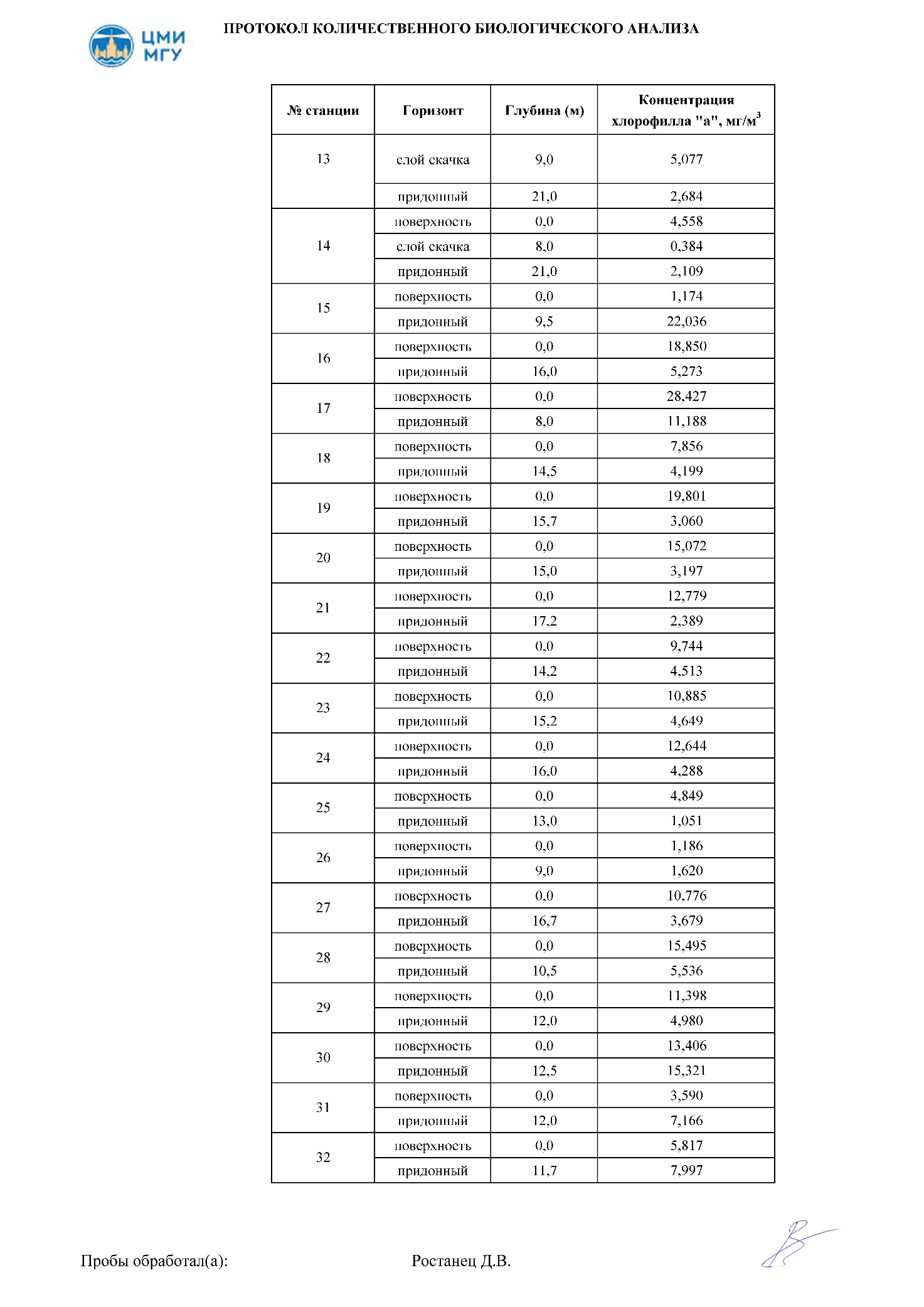
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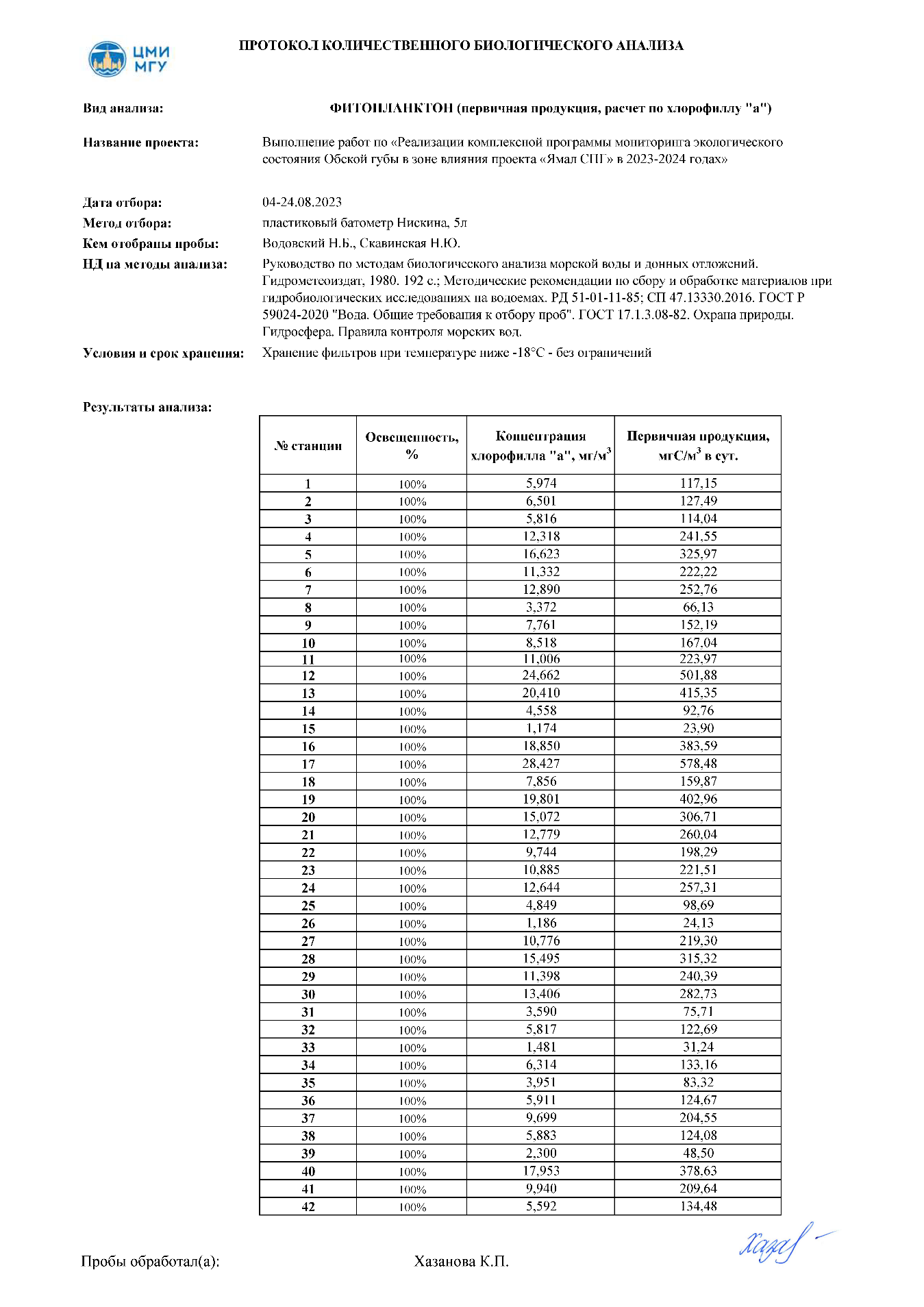
# Приложение У. Копии протоколов количественного биологического анализа

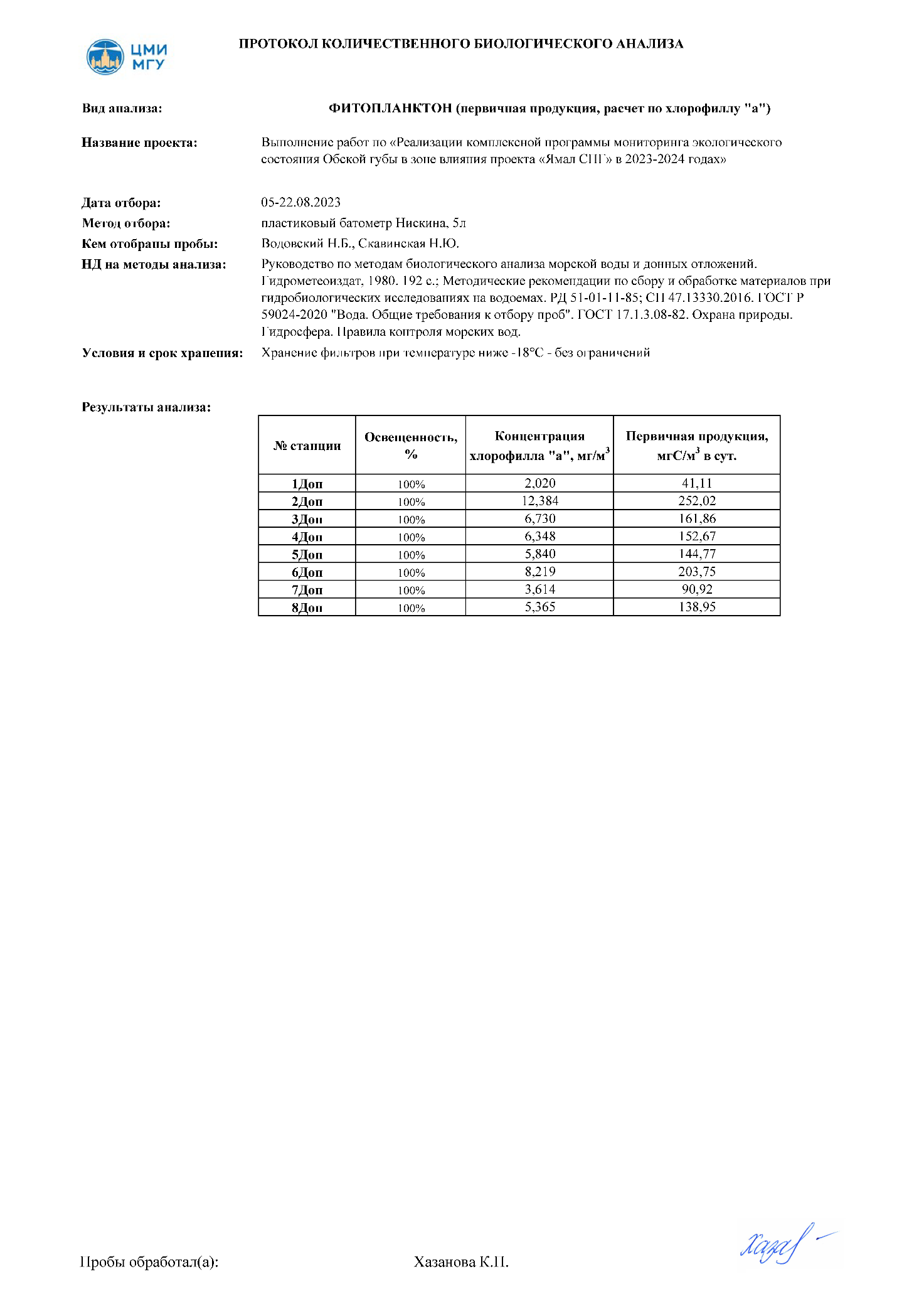
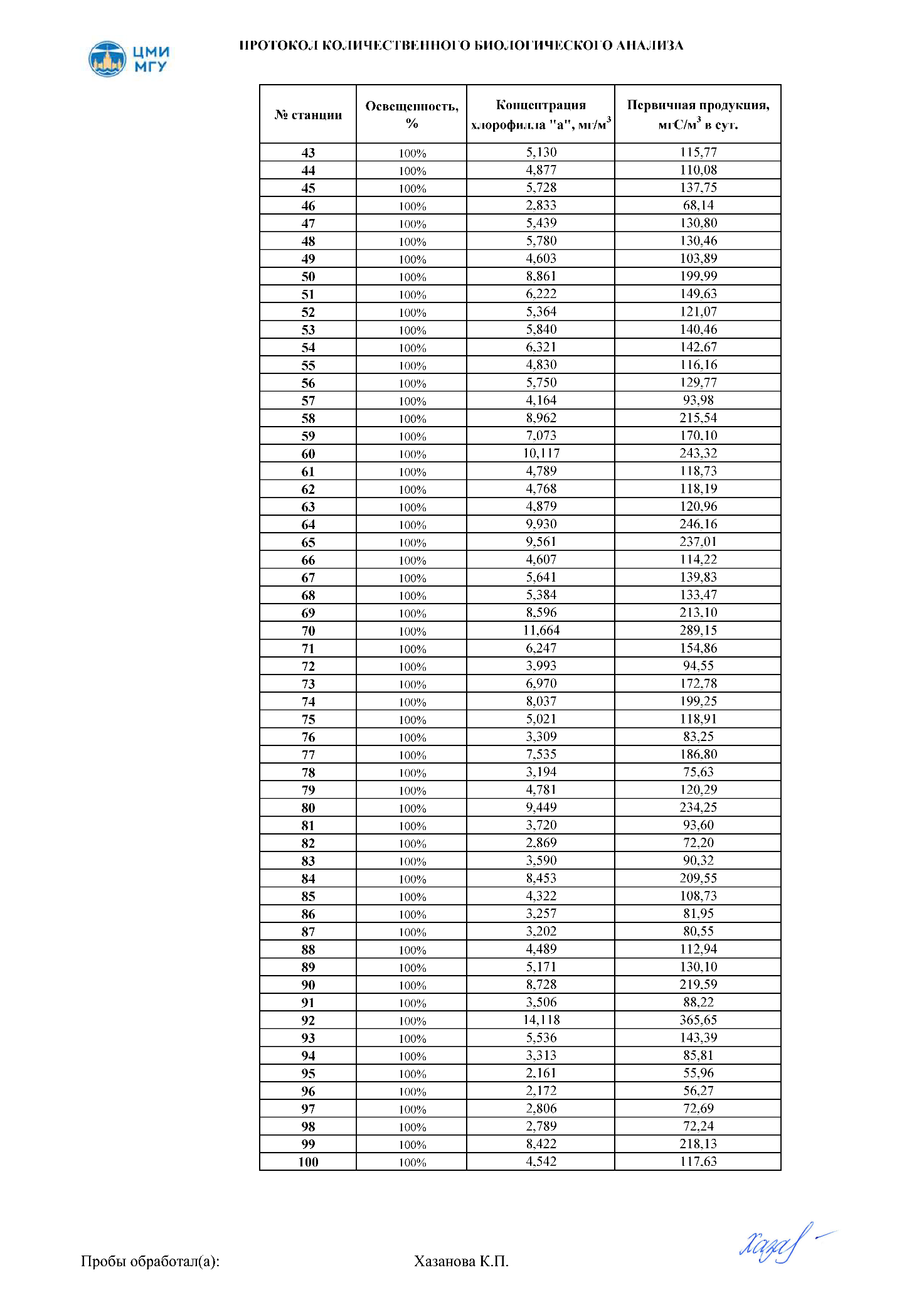
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## Приложение У.3. Копии протоколов КБА проб первичной продукции





# 

# Приложение Ц. Гидробиологическая характеристика акватории

## Приложение Ц.1. Видовой состав фитопланктона Обской губы в августе 2023 г. (станции 1-50).

|  |  | **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** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** | **41** | **42** | **43** | **44** | **45** | **46** | **47** | **48** | **49** | **50** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Ochrophyta (Bacillariophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Achnanthes taeniata Grunow, 1880 | \* |  |  | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Actinocyclus normanii (Gregory) Hustedt, 1957 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Actinoptychus octonarius (Ehrenberg) Kützing, 1844 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Amphora ocellata Donkin, 1861 | \* |  | \* | \* | \* |  |  |  | \* | \* |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Asterionella formosa Hassall, 1850 |  |  |  | \* | \* | \* |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* |  |  |  |
| 6 | Aulacoseira ambigua (Grunow) Simonsen, 1979 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Aulacoseira granulata (Ehrenberg) Simonsen, 1979 | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 8 | Aulacoseira islandica (O. Müll.) Simonsen, 1979 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* |
| 9 | Aulacoseira italica (O. Müll.) Simonsen, 1979 | **\*** | **\*** | **\*** | **\*** |  |  | **\*** | **\*** | **\*** | **\*** |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Aulacoseira subarctica (Otto Müller) E.Y.Haworth, 1990 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Chaetoceros debilis Cleve, 1894 |  |  | \* |  | \* |  | \* | \* |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Chaetoceros decipiens Cleve, 1873 |  |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Chaetoceros diadema (Ehrenberg) Gran, 1897 |  |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Chaetoceros socialis H.S.Lauder, 1864 |  |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Chaetoceros sp. spores |  |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* |  |  |  | \* | \* | \* |
| 16 | Chaetoceros wighamii Brightwell, 1856 |  |  | \* |  |  |  | \* | \* |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* |  |  |  | \* | \* | \* |
| 17 | Cocconeis costata Gregory, 1855 | \* | \* | \* | \* |  |  | \* | \* | \* |  |  | \* | \* | \* | \* | \* |  |  | \* |  |  |  | \* |  |  | \* |  |  | \* |  |  |  |  |  | \* |  |  | \* |  |  |  |  | \* |  |  |  |  | \* |  |  |
| 18 | Cocconeis placentula Ehrenberg, 1838 | \* |  |  | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Cocconeis scutellum Ehrenberg, 1838 |  | \* | \* | \* |  |  | \* |  |  | \* |  | \* | \* | \* |  |  |  | \* |  |  |  | \* |  |  |  |  | \* | \* |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |
| 20 | Coscinodiscus sp. |  | \* | \* |  |  |  |  |  |  |  |  | \* |  | \* |  | \* |  |  | \* |  | \* |  |  |  | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Cyclostephanos dubius (Hused) Round, 1988 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* |  |  |  |
| 22 | Cyclotella comta (Ehrenberg)Kützing, 1849 |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* |  |  |  |
| 23 | Cyclotella meneghiniana Kützing, 1844 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | Cymbella cistula (Ehrenberg) O.Kirchner, 1878 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | Diatoma tenuis C.Agardh, 1812 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | Diploneis interrupta (Kützing) Cleve, 1894 | \* | \* |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* | \* |  |  | \* | \* |  | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* |  |  |  |  | \* |  |  |  |  |  |  | \* |
| 27 | Entomoneis sp. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | Fragilaria construens (Ehrenberg) Grunow, 1862 | \* | \* |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 | Fragilaria crotonensis Kitton, 1869 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  | \* | \* |  | \* | \* | \* | \* |  | \* |  |
| 30 | Fragilariopsis cylindrus (Grunow) Krieger, 1954 | \* | \* |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  |  | \* |  | \* |  |  |  |  |  | \* | \* |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | Fragilariopsis oceanica (Cleve) Hasle, 1965 | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* | \* | \* | \* | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | Frustulia ventricosa C.Agardh, 1827 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 | Gomphonema acuminatum Ehrenberg, 1832 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |  | \* | \* |  |  |  | \* | \* |  | \* |  | \* |
| 34 | Gomphonema olivaceum (Lyngbye ) Desmazieres, 1825 |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |
| 35 | Lindavia bodanica (Eulenstein ex Grunow) Nakov et al., 2015 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36 | Melosira arctica (Ehrenberg) Ralfs in Pritchard, 1861 | \* | \* | \* | \* |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* |  | \* |  | \* | \* | \* | \* | \* | \* |  | \* | \* | \* |  | \* |  |
| 37 | Melosira juergensi C. Agardh, 1824 |  |  |  |  |  |  |  | \* |  |  |  |  | \* | \* | \* | \* |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  | \* |  |  |  |
| 38 | Melosira moniliformis (O.F.Müller) C.Agardh, 1824 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  |  |  | \* |  |  |  |  | \* |  |
| 39 | Melosira varians Ag., 1827 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  | \* |  |  |  | \* | \* |  | \* |
| 40 | Navicula abrupta (W.Gregory) Donkin, 1870 |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  | \* |  |  | \* | \* |  |  | \* |  |  |  | \* | \* |  | \* | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 | Navicula perlucens Østrup, 1895 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  |  |  |  |
| 42 | Navicula radiosa Kützing, 1844 |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 | Navicula sp.1 |  |  |  |  |  | \* |  |  | \* |  |  |  |  | \* | \* |  | \* | \* |  | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |
| 44 | Navicula sp.2 |  |  |  |  | \* |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 | Navicula transitans var. transitans Cleve, 1883 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |
| 46 | Navicula vanhoeffenii Gran, 1897 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* |  | \* |  |  | \* |  |  |  | \* |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |
| 47 | Nitzchia sp. |  | \* |  |  | \* |  | \* | \* |  | \* |  | \* | \* |  | \* |  | \* | \* |  |  |  | \* | \* |  | \* | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |
| 48 | Nitzschia acicularis (Kützing) W.Smith, 1853 |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  | \* |  |  | \* | \* | \* |  |  | \* |
| 49 | Nitzschia closterium f. minutissima Allen & Nelson, 1910 |  |  | \* | \* |  |  |  |  | \* | \* |  | \* |  |  | \* |  |  |  | \* | \* |  | \* |  | \* | \* |  |  | \* | \* |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  | \* |  |  |
| 50 | Nitzschia longissima (Brébisson) Ralfs, 1861 | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  | \* |  | \* |
| 51 | Nitzschia palea (Kützing) W.Smith, 1856 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* | \* |  | \* |  | \* |  |  |  |  |  |
| 52 | Paralia sulcata (Ehrenberg) Cleve, 1873 | \* |  | \* | \* |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53 | Pinnularia gibba Ehrenberg, 1843 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  | \* | \* |  |  |  |  | \* |  | \* | \* |  |
| 54 | Placoneis placentula (Ehrenberg) Mereschkowsky, 1903 |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55 | Skeletonema costatum (Grév.) Cleve, 1878 | \* |  | \* | \* |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56 | Stephanodiscus dubius Hustedt, 1928 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 57 | Stephanodiscus hantzschii Grunow, 1886 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58 | Stephanodiscus pusillus (Grunow) Willi Krieger |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59 | Surirella biseriata Brébisson, 1835 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 | Surirella crumena Brébisson ex Kützing, 1849 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61 | Surirella minuta Brébisson, 1849 |  |  |  | \* |  |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62 | Tabellaria fenestrata Lyngbye Kützing 1844 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 63 | Tabellaria flocculosa (Roth) Kützing, 1844 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64 | Thalassionema nitzschioides (Grunow) Mereschkowsky, 1902 |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65 | Thalassiosira antarctica Comber, 1896 |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66 | Thalassiosira baltica (Grunow) Ostenfeld, 1901 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 67 | Thalassiosira gravida P.T. Cleve, 1896 |  |  | \* |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68 | Thalassiosira ignota Makarova, 1975 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 69 | Thalassiosira nordenskioeldii Cleve, 1873 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 | Ulnaria acus (Kützing) M.Aboal, 2003 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |
|  | **Chrysophyceae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 71 | Ochromonas spp |  |  | \* |  |  |  | \* | \* |  |  |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chlorophyta** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72 | Actinastrum hantzschii Lagerheim, 1882 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 73 | Ankistrodesmus arcuatus Korshikov, 1953 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74 | Ankistrodesmus falcatus (Corda) Ralfs, 1848 |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \*\* | \* | \* | \*\* | \*\* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  | \* | \* |  | \* | \* |  | \* | \* | \* |  | \* |  |  |  |
| 75 | Ankistrodesmus fusiformis Corda, 1838 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76 | Binuclearia palhinhae P.González, 1950 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 77 | Binuclearia lauterbornii (Schmidle) Proschkina-Lavrenko, 1966 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78 | Chlamydomonas globosa J.W.Snow, 1903 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79 | Coelastrum astroideum De Notaris, 1867 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 | Closterium moniliferum Ehrenberg ex Ralfs, 1848 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 81 | Coenocystis planktonica Korshikov |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82 | Crucigenia quadrata Morren, 1830 |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* |  | \* |  |  | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83 | Crucigera irregularis Bush, 1905 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84 | Crucigenia tetrapedia (Kirchner) Kuntze, 1898 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* | \* | \*\* | \* | \*\* | \*\* |  | \*\* |  | \* | \* | \* |  | \* | \* |  | \* |  |  | \* | \* |  |  |  | \* |  |  |  |  | \* | \* | \* |
| 85 | Desmodesmus intermedius (Chodat) E.Hegewald, 2000 |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* |  |  |  |  | \* |  |  |  | \* |  |  |  |  |
| 86 | Desmodesmus magnus (Meyen) Tsarenko, 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  |
| 87 | Desmodesmus spinosus (Chodat) E.Hegewald, 2000 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88 | Dictyosphaerium elegans H. Bachm., 1913 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 89 | Dictyosphaerium subsolitarium Van Goor, 1924 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 | Golenkiniopsis solitaria (Korshikov) Korshikov, 1953 |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* |  |  | \* | \* | \* | \*\* |  |  |  | \* | \*\* | \* |  |  |  |  |  |  | \* |  | \* |  |  | \* |  |  | \* |  | \* |  |  |  |  | \* |
| 91 | Hegewaldia parvula (Woronichin) Pröschold, C.Bock, W.Luo & L Krienitz, 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92 | Kirchneriella lunaris (Kirchner) Mubius, 1894 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 93 | Lagerheimia genevensis (Chodat) Chodat, 1895 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94 | Lagerheimia subsalsa Lemmermann, 1898 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95 | Lemmermannia triangularis (Chodat) C.Bock & Krienitz, 2013 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 96 | Micractinium pusillum Fresenius, 1858 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 | Monoraphidium contortum (Thuret in Brébisson) Komárková- Legnerová 1969 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* |  |  | \* |  |  |  |  | \* | \* |  |  | \* |
| 98 | Monoraphidium convolutum (Corda) Komárková-Legnerová, 1969 |  |  |  |  | \* |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* |  | \*\* | \* | \* | \* |  | \* |  | \* |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |
| 99 | Monoraphidium komarkovae Nygaard 1979 |  |  |  |  |  | \* |  |  |  |  | \* | \* |  |  |  | \* | \* |  |  | \* |  | \* |  | \* |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  | \* | \* |  |  |  |  |  | \* |  |  |  |  |
| 100 | Oocystis sp. |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 101 | Pediastrum biradiatum Meyen, 1829 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 102 | Pediastrum duplex, Meyen 1829 |  |  |  |  | \* | \* |  |  |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  | \* | \* | \* | \* |  |  |  |  | \* | \* | \* |  |  | \* | \* | \* |
| 103 | Pandorina morum, O.F. Müller) Bory 1824 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  |  |  | \* |  | \* | \* |  |  |  | \* | \* |  |  |  |
| 104 | Pseudopediastrum boryanum (Turpin) E.Hegewald, 2005 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105 | Scenedesmus quadricauda (Turpin) Brébisson, 1835 |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* |  | \* |  | \* | \* | \* | \* |  |  |  |  | \* |  | \* | \* | \* |  |  |  |  |  | \* |  |  |  |  | \* | \* |
| 106 | Scenedesmus acuminatus (Lagerheim) Chodat, 1902 |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* |  |  | \* | \* | \*\* | \* |  | \* | \* | \* | \* |  |  |  | \* |  | \* |  |  |  |  |  |  |  | \* |  | \* | \* | \* |  | \* |  | \* |  |  |
| 107 | Selenastrum bibraianum Reinsch, 1866 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 108 | Tetradesmus obliquus (Turpin) M.J.Wynne, 2016 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 109 | Tetraedron caudatum (Corda) Hansgirg, 1888 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  | \* |  |  |  | \* |  |  |  |  |  |
| 110 | Tetrastrum staurogeniiforme (Schröder) Lemmermann, 1900 |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111 | Tetrastrum triacanthum Korshikov, 1939 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  | \* | \* |  | \* |  |  | \* | \* | \* |  |  |  |
| 112 | Treubaria setigera (W.Archer) G.M.Smith, 1933 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Cyanobacteria** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 113 | Anabaena sp. | \* |  |  | \* |  |  | \* |  | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* |  |  |  |
| 114 | Aphanizomenon flosaquae Ralfs ex Bornet & Flahault, 1886 |  |  | \* |  | \* | \* | \* | \* |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 115 | Aphanizomenon gracile Lemmermann, 1907 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 116 | Aphanocapsa delicatissima West & G.S.West, 1912 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  | \* |  | \* | \* |  | \* |  | \* | \* |  |  |  |  | \* |
| 117 | Aphanocapsa grevillei (Berkeley) Rabenhorst, 1865 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 118 | Dolichospermum macrosporum (Klebhan) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 119 | Dolichospermum scheremetieviae (Elenkin) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120 | Dolichospermum sigmoideum (Nygaard) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 121 | Dolichospermum smithii Thwaites, 1850 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  | \* | \* |  |
| 122 | Dolichospermum spiroides (Klebhan) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* | \* |  |
| 123 | Gloeocapsa cf. atrata Kützing, 1843 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 124 | Johanseninema constrictum (Szafer) Hasler, Dvorák & Poulícková, 2014 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125 | Limnococcus limneticus (Lemmermann) Komбrkovб, Jezberovб, O.Komбrek & Zapomelovб, 2010 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  |
| 126 | Merismopedia sp. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  | \* |  |  |  | \* |  |  |  |  |  |  | \* |  | \* |
| 127 | Microcyctis aeruginosa (Kützing) Kützing 1846 |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* |
| 128 | Microcystis cf. pulverea (H.C.Wood) Forti, 1907 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 129 | Microcystis sp. |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130 | Microcystis smithii Komбrek & Anagnostidis, 1995 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  | \* | \* |  |
| 131 | Microcystis wesenbergii (Komárek) Komárek ex Komárek, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 132 | Oscillatoria granulata var. major N.D.Kamat, 1963 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  | \* |
| 133 | Oscillatoria lacustris (Klebahn) Geitler, 1925 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  | \* |  | \* |  | \* |  | \* | \* |  |  |  |  | \* | \* | \* |
| 134 | Planktolyngbya limnetica (Lemmermann) Komárková-Legnerová & Cronberg, 1992 |  |  | \* |  | \* | \* |  | \* |  | \* | \* |  | \* |  | \* |  | \* | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  |  |  |  |  |  | \* |  | \* |  |  | \* |  | \* | \* | \* | \* |  |
| 135 | Planktothrix agardhii (Gomont) Anagnostidis & Komárek 1988 |  |  |  |  |  | \* |  |  |  |  |  | \* |  | \* | \* |  | \* |  | \* |  | \* | \* | \* | \* |  | \* | \* |  | \* |  |  | \* |  | \* |  | \* |  | \* |  |  | \* |  |  |  |  |  | \* | \* | \* | \* |
| 136 | Snowella lacustris (Chodat) Komбrek & Hindбk, 1988 |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  |  |  | \* |  | \* |  |  | \* |  | \* |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |
| 137 | Snowella rosea (J.W.Snow) Elenkin, 1938 |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* |  | \* |  |  | \* | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 138 | Woronichinia naegeliana (Unger) Elenkin 1933 |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  | \* | \* |  |  | \* | \* |  |  | \* |  | \* |  |  |
|  | **Haptophyta (Primnesiophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Coccolithales** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 139 | Coccolithus pelagicus (Wallich) J.Schiller, 1930 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Primnesialis** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140 | Chrysochromulina hirta Manton, 1978 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 141 | Chrysochromylina sp. | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Isochrysidales** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 142 | Emiliania huxleyi (Lohmann) W.W.Hay & H.P.Mohler, 1967 | \* | \* | \* | \* |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Cryptophyta (Cryptophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 143 | Leucocryptos marina (Braarud) Butcher, 1967 | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 144 | Cryptomonas erosa Ehrenberg 1832 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145 | Cryptomonas ovata Ehrenberg 1832 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 146 | Plagioselmis prolonga Butcher ex G.Novarino, I.A.N.Lucas & S.Morrall, 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 147 | Hemiselmis virescens, Droop 1955 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 148 | Teleaulax acuta (Butcher) Hill 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 149 | Small cryptomonads 8-10 μm (cf. Chroomonas sp.) | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* |
|  | **Euglenozoa (Euglenoidea)** |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150 | Eutreptiella braarudii Throndsen, 1969 | \* | \* |  | \* |  |  | \* |  | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 151 | Eutreptiella gymnastica Throndsen, 1969 |  | \* | \* | \* | \* | \* | \* |  |  |  | \* | \* | \* |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 152 | Eutreptiella marina da Cunha, 1914 | \* |  | \* |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 153 | Heteronema abruptum Skuja, 1939 |  | \* |  | \* |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 154 | Heteronema klebsii Senn, 1900 | \* |  | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  | \* |  |  |  |  | \* |  |  |
| 155 | Astasia captiva P.Beauchamp |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  | \* | \* |  | \* |  | \* | \* |  | \* | \* |  | \* |  | \* |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |
| 156 | Astasia inflata Dujardin, 1841 |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  | \* |  | \* |  |  | \* |  |  | \* |  |  |  | \* |  | \* | \* | \* |  | \* |  |  |  |  |  | \* |  | \* |  |  | \* |  |
| 157 | Astasia recta H.R.Christen, 1958 |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* |  | \* | \* | \* |  | \* |  | \* |  | \* | \* | \* | \* |  | \* | \* |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* |  | \* |  | \* |
| 158 | Euglena acus f. hyalina H.K.F.H.Seckt |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  | \* |  | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  | \* |  |  |  |  |  |
| 159 | Euglena granulata (G.A.Klebs) F.Schmitz, 1884 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  | \* | \* | \* |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160 | Euglena sp. |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 161 | Eutreptia lanowii Steuer, 1904 |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  | \* |  | \* |  | \* |  |  |  | \* | \* |  | \* |  | \* | \* |
| 162 | Eutreptiea sp. |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 163 | Lepocinclis acus (O.F.Müller) B.Marin & Melkonian, 2003 |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 164 | Lepocinclis fusiformis (H.J.Carter) Lemmermann, 1901 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165 | Strombomonas acuminata (Schmarda) Deflandre, 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 166 | Strombomonas samarae (Swirenko) T.G.Popova, 1955 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 167 | Trachelomonas armata (Ehrenberg) F.Stein, 1878 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 168 | Trachelomonas intermedia P.A.Dangeard, 1902 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 169 | Trachelomonas mirabilis Swirenko [Svirenko], 1913 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170 | Trachelomonas sp. |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Myzozoa (Dinophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 172 | Alexandrium ostenfeldii (Paulsen) Balech & Tagen,1985 | \* | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 173 | Amphidinium carterae Hulburt, 1957 |  | \* | \* |  |  |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 174 | Amphidinium sphenoides WüIff, 1916 |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  | \* |  |  |  | \* | \* |  |
| 175 | Dinophysis acuminata Claparède & Lachmann, 1859 |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  | \* |
| 176 | Gonyaulax spinifera (Claparède & Lachmann) Diesing, 1866 |  |  | \* |  |  |  | \* | \* | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  | \* |  |
| 177 | Gymnodinium fusus Schütt, 1895 |  |  |  |  |  |  |  | \* |  | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* |  |  |  | \* | \* | \* |  |  |  | \* |  | \* | \* |  |  |
| 178 | Gymnodinium japonicum Hada, 1974 | \* |  | \* |  |  |  |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* |
| 179 | Gyrodinium fusiforme Kofoid & Swezy, 1921 |  |  | \* |  |  |  | \* |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |
| 180 | Gyrodinium lachryma (Meunier) Kofoid & Swezy,1921 |  | \* |  |  |  |  | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  |  |  |  |  | \* |  |  |  | \* |  | \* |  |  |
| 181 | Heterocapsa rotundata (Lohmann) Gert Hansen, 1995 |  |  |  |  | \* |  | \* | \* |  |  | \* | \* | \* | \* | \* | \* |  | \* | \* | \* |  | \* | \* |  | \* |  | \* | \* | \* |  | \* |  | \* | \* |  |  |  |  |  | \* |  | \* |  |  | \* |  |  |  |  |  |
| 182 | Heterocapsa triquetra (Ehrenberg) Stein, 1883 |  |  | \* |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  | \* | \* |  |  | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 183 | Lebouridinium glaucum (Lebour) F.Gómez, H.Takayam, D.Moreira & P.López-García, 2016 |  | \* |  | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  | \* |  |
| 184 | Peridiniella catenata (Levander) Balech, 1977 |  |  | \* |  |  | \* |  | \* |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  | \* |  |  | \* |  |  |  | \* |  | \* |
| 185 | Peridiniella danica (Paulsen) Okolodkov et Dodge, 1995 |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |
| 186 | Peridinium sp. |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 187 | Prorocentrum lima (Ehrenberg) F.Stein, 1878 | \* | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |
| 188 | Protoperidinium depressum (Bailey) Balech, 1974 |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 189 | Protoperidinium granii (Ostf.) Balech, 1974. |  | \* | \* |  |  |  | \* | \* |  |  |  |  | \* | \* |  | \* |  | \* | \* |  |  | \* |  | \* |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 190 | Protoperidinium monacanthum (Broch, 1910) Balech, 1973 | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 191 | Protoperidinium pallidum (Ostenfeld) Balech, 1973 |  |  |  | \* |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 192 | Protoperidinium pyriforme (Paulsen) Balech, 1974 |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 193 | Protoperidinium subinerme (Paulsen) Loeblich III, 1969 |  |  | \* |  |  |  |  | \* |  |  |  | \* | \* |  | \* |  |  |  |  |  | \* |  | \* |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 194 | Scrippsiella trochoidea (Stein) Loeblich III, 1976 |  |  |  | \* |  |  | \* | \* | \* | \* |  |  | \* | \* |  | \* |  | \* |  | \* | \* |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | flagellates 5-15 мкм |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* |  |  |  |

## Приложение Ц.2. Видовой состав фитопланктона Обской губы в августе 2023 г (станции 51-100).

|  |  | **51** | **52** | **53** | **54** | **56** | **57** | **58** | **55** | **59** | **60** | **61** | **62** | **63** | **64** | **65** | **66** | **67** | **68** | **69** | **70** | **71** | **72** | **73** | **74** | **75** | **76** | **77** | **78** | **79** | **80** | **81** | **82** | **83** | **84** | **85** | **86** | **87** | **88** | **89** | **90** | **91** | **92** | **93** | **94** | **95** | **96** | **97** | **98** | **99** | **100** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Ochrophyta (Bacillariophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Achnanthes taeniata Grunow, 1880 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Actinocyclus normanii (Gregory) Hustedt, 1957 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |
| 3 | Actinoptychus octonarius (Ehrenberg) Kützing, 1844 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  | \* |  |  |  |  |  |
| 4 | Amphora ocellata Donkin, 1861 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Asterionella formosa Hassall, 1850 | \* | \* | \* |  |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |
| 6 | Aulacoseira ambigua (Grunow) Simonsen, 1979 |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 7 | Aulacoseira granulata (Ehrenberg) Simonsen, 1979 | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 8 | Aulacoseira islandica (O. Müll.) Simonsen, 1979 | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |
| 9 | Aulacoseira italica (O. Müll.) Simonsen, 1979 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* | \* |  |  |  |  |  |
| 10 | Aulacoseira subarctica (Otto Müller) E.Y.Haworth, 1990 |  | \* | \* |  |  |  | \* | \* |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Chaetoceros debilis Cleve, 1894 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |
| 12 | Chaetoceros decipiens Cleve, 1873 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |
| 13 | Chaetoceros diadema (Ehrenberg) Gran, 1897 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Chaetoceros socialis H.S.Lauder, 1864 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Chaetoceros sp. spores |  |  |  | \* | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Chaetoceros wighamii Brightwell, 1856 |  |  |  | \* | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Cocconeis costata Gregory, 1855 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Cocconeis placentula Ehrenberg, 1838 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Cocconeis scutellum Ehrenberg, 1838 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Coscinodiscus sp. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Cyclostephanos dubius (Hused) Round, 1988 | \* | \* | \* |  |  |  | \* |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 22 | Cyclotella comta (Ehrenberg)Kützing, 1849 | \* | \* | \* |  |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 23 | Cyclotella meneghiniana Kützing, 1844 |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 24 | Cymbella cistula (Ehrenberg) O.Kirchner, 1878 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |
| 25 | Diatoma tenuis C.Agardh, 1812 |  |  |  |  |  |  |  | \* | \* |  |  | \* |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* |  |  | \* |  | \* |  |  | \* | \* |  | \* | \* | \* | \* |  | \* | \* | \* |  |  | \* |  |  |  |  |  |
| 26 | Diploneis interrupta (Kützing) Cleve, 1894 |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | Entomoneis sp. |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* | \* |  | \* | \* | \* |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |
| 28 | Fragilaria construens (Ehrenberg) Grunow, 1862 |  |  |  |  |  | \* |  | \* |  | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  | \* |  |  | \* |  | \* |  | \* |  |  | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |
| 29 | Fragilaria crotonensis Kitton, 1869 | \* | \* | \* |  | \* |  | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  |  |  |  |
| 30 | Fragilariopsis cylindrus (Grunow) Krieger, 1954 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | Fragilariopsis oceanica (Cleve) Hasle, 1965 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | Frustulia ventricosa C.Agardh, 1827 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |
| 33 | Gomphonema acuminatum Ehrenberg, 1832 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |
| 34 | Gomphonema olivaceum (Lyngbye ) Desmazieres, 1825 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 | Lindavia bodanica (Eulenstein ex Grunow) Nakov et al., 2015 |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  |  |  |  | \* | \* |  |  | \* | \* |  |  | \* |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  |  | \* |  | \* |  | \* |  |  |  |  |  |
| 36 | Melosira arctica (Ehrenberg) Ralfs in Pritchard, 1861 | \* | \* | \* | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |
| 37 | Melosira juergensi C. Agardh, 1824 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38 | Melosira moniliformis (O.F.Müller) C.Agardh, 1824 |  | \* | \* |  |  | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 | Melosira varians Ag., 1827 |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 | Navicula abrupta (W.Gregory) Donkin, 1870 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 | Navicula perlucens Østrup, 1895 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |
| 42 | Navicula radiosa Kützing, 1844 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |
| 43 | Navicula sp.1 |  |  |  |  |  |  |  | \* | \* |  | \* | \* |  | \* | \* |  |  | \* |  | \* | \* | \* | \* | \* |  | \* |  | \* | \* | \* | \* |  | \* | \* |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  |  |  |  |  |
| 44 | Navicula sp.2 |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  |  | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  | \* |  | \* |  |  | \* | \* | \* |  | \* |  | \* |  |  |  |  |  |
| 45 | Navicula transitans var. transitans Cleve, 1883 | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |
| 46 | Navicula vanhoeffenii Gran, 1897 |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 | Nitzchia sp. |  |  |  |  |  |  |  | \* | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* |  |  | \* | \* | \* | \* | \* | \* | \* |  |  | \* | \* | \* |  | \* |  |  |  |  |  |  | \* | \* |  | \* |  |  |  |  |  |
| 48 | Nitzschia acicularis (Kützing) W.Smith, 1853 |  |  |  | \* |  | \* |  | \* |  | \* | \* | \* |  | \* | \* | \* |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  |  |  |  |  |
| 49 | Nitzschia closterium f. minutissima Allen & Nelson, 1910 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | Nitzschia longissima (Brébisson) Ralfs, 1861 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51 | Nitzschia palea (Kützing) W.Smith, 1856 | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |
| 52 | Paralia sulcata (Ehrenberg) Cleve, 1873 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53 | Pinnularia gibba Ehrenberg, 1843 | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |
| 54 | Placoneis placentula (Ehrenberg) Mereschkowsky, 1903 |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  | \* |  |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |
| 55 | Skeletonema costatum (Grév.) Cleve, 1878 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56 | Stephanodiscus dubius Hustedt, 1928 |  |  |  |  |  |  |  | \* | \* |  |  |  | \* |  | \* |  | \* |  |  | \* | \* |  | \* | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* |  |  |  | \* |  | \* | \* | \* | \* | \* |  |  |  |  |  |
| 57 | Stephanodiscus hantzschii Grunow, 1886 |  |  |  |  |  |  |  | \* |  | \* |  | \* |  | \* | \* | \* | \* |  | \* |  | \* | \* | \* |  | \* | \* | \* | \* | \* |  | \* |  |  | \* | \* | \* |  | \* | \* | \* |  | \* | \* | \* | \* |  |  |  |  |  |
| 58 | Stephanodiscus pusillus (Grunow) Willi Krieger |  |  |  |  |  |  |  | \* |  | \* |  |  |  | \* |  |  |  | \* |  | \* | \* |  | \* | \* | \* |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |
| 59 | Surirella biseriata Brébisson, 1835 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |
| 60 | Surirella crumena Brébisson ex Kützing, 1849 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |
| 61 | Surirella minuta Brébisson, 1849 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62 | Tabellaria fenestrata Lyngbye Kützing 1844 |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  |  |  |  | \* | \* |  | \* | \* | \* |  |  | \* | \* | \* | \* |  |  |  |  |  |
| 63 | Tabellaria flocculosa (Roth) Kützing, 1844 |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* |  |  |  |  |  |
| 64 | Thalassionema nitzschioides (Grunow) Mereschkowsky, 1902 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65 | Thalassiosira antarctica Comber, 1896 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66 | Thalassiosira baltica (Grunow) Ostenfeld, 1901 | \* | \* | \* | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 67 | Thalassiosira gravida P.T. Cleve, 1896 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68 | Thalassiosira ignota Makarova, 1975 | \* | \* | \* | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 69 | Thalassiosira nordenskioeldii Cleve, 1873 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 | Ulnaria acus (Kützing) M.Aboal, 2003 | \* | \* | \* |  |  |  | \* |  |  | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  |  |  |  |  | \* | \* |  | \* |  | \* |  |  |  |  |  |
|  | **Chrysophyceae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 71 | Ochromonas spp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chlorophyta** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72 | Actinastrum hantzschii Lagerheim, 1882 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  | \* | \* | \* |  | \* | \* |  | \* | \* | \* | \* | \* |  |  |  |  |  |
| 73 | Ankistrodesmus arcuatus Korshikov, 1953 |  |  |  |  |  |  |  |  | \* |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 74 | Ankistrodesmus falcatus (Corda) Ralfs, 1848 |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* |
| 75 | Ankistrodesmus fusiformis Corda, 1838 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |
| 76 | Binuclearia palhinhae P.González, 1950 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |
| 77 | Binuclearia lauterbornii (Schmidle) Proschkina-Lavrenko, 1966 |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  | \* | \* | \* | \* | \* | \* |
| 78 | Chlamydomonas globosa J.W.Snow, 1903 |  |  |  |  |  |  |  | \* |  | \* |  |  |  | \* |  |  | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* |  |  |  | \* |  |
| 79 | Coelastrum astroideum De Notaris, 1867 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* |  | \* | \* |  |
| 80 | Closterium moniliferum Ehrenberg ex Ralfs, 1848 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* | \* |  |  |
| 81 | Coenocystis planktonica Korshikov |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  |  |  |
| 82 | Crucigenia quadrata Morren, 1830 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* | \* | \* | \* | \* |
| 83 | Crucigera irregularis Bush, 1905 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* |  | \* |
| 84 | Crucigenia tetrapedia (Kirchner) Kuntze, 1898 |  | \* |  |  |  | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* |
| 85 | Desmodesmus intermedius (Chodat) E.Hegewald, 2000 | \* |  | \* | \* | \* |  |  |  |  |  |  |  | \* |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  |  | \* |  |
| 86 | Desmodesmus magnus (Meyen) Tsarenko, 2000 |  |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* | \* | \* |  | \* |  | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* |
| 87 | Desmodesmus spinosus (Chodat) E.Hegewald, 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* |  | \* |  | \* | \* |  |  |  |  |  |  |  |  |  |
| 88 | Dictyosphaerium elegans H. Bachm., 1913 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  |  |  |  |  | \* |  |  | \* |  | \* |  |  |  | \* |  |  | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 89 | Dictyosphaerium subsolitarium Van Goor, 1924 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |
| 90 | Golenkiniopsis solitaria (Korshikov) Korshikov, 1953 |  |  |  |  | \* | \* |  |  |  | \* |  |  | \* |  |  |  | \* |  | \* | \* |  |  | \* | \* |  |  | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |
| 91 | Hegewaldia parvula (Woronichin) Pröschold, C.Bock, W.Luo & L Krienitz, 2010 |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  | \* |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  | \* | \* |  | \* | \* |  | \* | \* | \* | \* |
| 92 | Kirchneriella lunaris (Kirchner) Mubius, 1894 |  |  |  |  |  |  |  | \* | \* |  |  | \* |  |  |  |  | \* |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  | \* |  | \* |
| 93 | Lagerheimia genevensis (Chodat) Chodat, 1895 |  |  |  |  |  |  |  | \* |  | \* |  | \* | \* | \* | \* |  | \* | \* |  |  |  |  |  |  | \* |  |  | \* |  | \* | \* | \* | \* | \* |  |  |  | \* | \* |  |  |  |  |  | \* |  |  | \* | \* |  |
| 94 | Lagerheimia subsalsa Lemmermann, 1898 |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  | \* |  |  |  | \* |  |  |  | \* |  | \* | \* | \* | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  | \* | \* |  |  |
| 95 | Lemmermannia triangularis (Chodat) C.Bock & Krienitz, 2013 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* | \* |
| 96 | Micractinium pusillum Fresenius, 1858 |  |  |  |  |  |  |  |  | \* | \* |  | \* |  | \* | \* |  | \* | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  | \* |  |  |
| 97 | Monoraphidium contortum (Thuret in Brébisson) Komárková- Legnerová 1969 | \* |  | \* | \* |  |  | \* |  |  | \* | \* | \* |  |  |  |  |  |  |  |  | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* |
| 98 | Monoraphidium convolutum (Corda) Komárková-Legnerová, 1969 |  |  |  |  |  |  |  |  | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  | \* | \* |  |  | \* | \* | \* |  | \* |  |  | \* |  | \* | \* | \* | \* | \* | \* |
| 99 | Monoraphidium komarkovae Nygaard 1979 |  | \* |  |  |  |  |  |  |  | \* |  |  | \* |  | \* | \* | \* |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  | \* | \* | \* | \* | \* | \* | \* |  |  |  |  | \* | \* | \* | \* | \* | \* |
| 100 | Oocystis sp. |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  | \* | \* |  |  | \* |  | \* | \* | \* | \* |  |  | \* |  | \* |
| 101 | Pediastrum biradiatum Meyen, 1829 |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |
| 102 | Pediastrum duplex, Meyen 1829 | \* |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  | \* | \* |  | \* | \* |  | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 103 | Pandorina morum, O.F. Müller) Bory 1824 |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |
| 104 | Pseudopediastrum boryanum (Turpin) E.Hegewald, 2005 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  |  |
| 105 | Scenedesmus quadricauda (Turpin) Brébisson, 1835 | \* | \* | \* |  | \* | \* |  |  |  |  | \* |  | \* |  | \* | \* |  |  |  |  | \* |  | \* |  |  | \* |  | \* |  |  | \* | \* | \* |  |  | \* | \* |  |  | \* | \* | \* |  |  | \* | \* | \* |  |  |  |
| 106 | Scenedesmus acuminatus (Lagerheim) Chodat, 1902 |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |
| 107 | Selenastrum bibraianum Reinsch, 1866 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |
| 108 | Tetradesmus obliquus (Turpin) M.J.Wynne, 2016 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* |  |  |  | \* | \* |  |  |  |  |
| 109 | Tetraedron caudatum (Corda) Hansgirg, 1888 | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* | \* |  |  |  |
| 110 | Tetrastrum staurogeniiforme (Schröder) Lemmermann, 1900 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  | \* | \* |  | \* |  |  | \* |  |  |  | \* | \* |  |  | \* |  | \* |  |  |  | \* |  |  | \* |  |  |
| 111 | Tetrastrum triacanthum Korshikov, 1939 |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |
| 112 | Treubaria setigera (W.Archer) G.M.Smith, 1933 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* | \* |  |
|  | **Cyanobacteria** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 113 | Anabaena sp. | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* |
| 114 | Aphanizomenon flosaquae Ralfs ex Bornet & Flahault, 1886 | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 115 | Aphanizomenon gracile Lemmermann, 1907 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  | \* | \* | \* |
| 116 | Aphanocapsa delicatissima West & G.S.West, 1912 |  | \* | \* | \* | \* | \* |  |  | \* |  | \* |  | \* | \* |  | \* | \* | \* | \* |  |  | \* |  |  | \* | \* | \* | \* | \* |  | \* | \* | \* | \* |  | \* | \* |  | \* | \* | \* |  | \* |  | \* |  |  | \* | \* | \* |
| 117 | Aphanocapsa grevillei (Berkeley) Rabenhorst, 1865 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  | \* |
| 118 | Dolichospermum macrosporum (Klebhan) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |
| 119 | Dolichospermum scheremetieviae (Elenkin) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  | \* |  |  |
| 120 | Dolichospermum sigmoideum (Nygaard) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |
| 121 | Dolichospermum smithii Thwaites, 1850 |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |
| 122 | Dolichospermum spiroides (Klebhan) Wacklin, L.Hoffmann & Komárek, 2009 |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 123 | Gloeocapsa cf. atrata Kützing, 1843 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  | \* |  |  |  |  |  |
| 124 | Johanseninema constrictum (Szafer) Hasler, Dvorák & Poulícková, 2014 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |
| 125 | Limnococcus limneticus (Lemmermann) Komбrkovб, Jezberovб, O.Komбrek & Zapomelovб, 2010 |  |  |  | \* | \* | \* |  | \* | \* |  |  | \* | \* |  | \* |  |  |  |  | \* | \* | \* | \* | \* | \* |  |  | \* |  | \* | \* |  | \* |  | \* | \* | \* | \* |  |  | \* |  |  |  | \* |  |  |  |  |  |
| 126 | Merismopedia sp. | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |
| 127 | Microcyctis aeruginosa (Kützing) Kützing 1846 |  |  | \* |  |  |  | \* |  |  | \* | \* |  |  |  | \* | \* | \* |  | \* |  |  | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* |  | \* | \* |  | \* | \* | \* | \* | \* | \* | \* |  |  |  |
| 128 | Microcystis cf. pulverea (H.C.Wood) Forti, 1907 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |  |  |
| 129 | Microcystis sp. |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  | \* | \* |
| 130 | Microcystis smithii Komбrek & Anagnostidis, 1995 |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |
| 131 | Microcystis wesenbergii (Komárek) Komárek ex Komárek, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* |
| 132 | Oscillatoria granulata var. major N.D.Kamat, 1963 |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |  |  |
| 133 | Oscillatoria lacustris (Klebahn) Geitler, 1925 | \* | \* |  |  | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |
| 134 | Planktolyngbya limnetica (Lemmermann) Komárková-Legnerová & Cronberg, 1992 |  |  |  | \* |  |  |  | \* | \* |  |  | \* |  | \* |  | \* |  |  |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |
| 135 | Planktothrix agardhii (Gomont) Anagnostidis & Komárek 1988 | \* | \* | \* |  |  | \* | \* |  | \* | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  |  |  |  |  |
| 136 | Snowella lacustris (Chodat) Komбrek & Hindбk, 1988 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  | \* |
| 137 | Snowella rosea (J.W.Snow) Elenkin, 1938 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |
| 138 | Woronichinia naegeliana (Unger) Elenkin 1933 |  | \* | \* | \* | \* | \* | \* |  |  |  | \* | \* |  | \* | \* | \* |  | \* |  | \* | \* |  | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  |  |  | \* | \* |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |
|  | **Haptophyta (Primnesiophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Coccolithales** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 139 | Coccolithus pelagicus (Wallich) J.Schiller, 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Primnesialis** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140 | Chrysochromulina hirta Manton, 1978 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 141 | Chrysochromylina sp. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Isochrysidales** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 142 | Emiliania huxleyi (Lohmann) W.W.Hay & H.P.Mohler, 1967 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Cryptophyta (Cryptophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 143 | Leucocryptos marina (Braarud) Butcher, 1967 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 144 | Cryptomonas erosa Ehrenberg 1832 |  |  |  |  |  |  |  | \* |  |  |  | \* | \* | \* | \* |  |  | \* | \* | \* | \* |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* |  |  |
| 145 | Cryptomonas ovata Ehrenberg 1832 |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  | \* |  |  | \* |  | \* | \* |  | \* |  | \* | \* |  |  | \* | \* | \* | \* | \* |  | \* |  |  | \* | \* |  |  | \* |  |  | \* | \* |  |  |  |
| 146 | Plagioselmis prolonga Butcher ex G.Novarino, I.A.N.Lucas & S.Morrall, 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  | \* | \* | \* | \* | \* |
| 147 | Hemiselmis virescens, Droop 1955 |  |  |  |  |  |  |  | \* |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* |  | \* |  |  | \* |  |  |  | \* | \* |  | \* | \* | \* | \* | \* | \* |  |  | \* |
| 148 | Teleaulax acuta (Butcher) Hill 1991 |  |  |  |  |  |  |  |  | \* | \* |  |  |  | \* |  | \* |  | \* | \* |  |  | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* |  |
| 149 | Small cryptomonads 8-10 μm (cf. Chroomonas sp.) | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* |  |  |  |  |  | \* | \* |  | \* |  |  | \* | \* | \* |  | \* | \* |  |  | \* | \* | \* | \* | \* |
|  | **Euglenozoa (Euglenoidea)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150 | Eutreptiella braarudii Throndsen, 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 151 | Eutreptiella gymnastica Throndsen, 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 152 | Eutreptiella marina da Cunha, 1914 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 153 | Heteronema abruptum Skuja, 1939 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 154 | Heteronema klebsii Senn, 1900 |  |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155 | Astasia captiva P.Beauchamp |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 156 | Astasia inflata Dujardin, 1841 |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 157 | Astasia recta H.R.Christen, 1958 | \* |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 158 | Euglena acus f. hyalina H.K.F.H.Seckt | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  | \* | \* | \* |
| 159 | Euglena granulata (G.A.Klebs) F.Schmitz, 1884 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160 | Euglena sp. |  |  |  |  |  |  |  | \* | \* |  |  | \* |  | \* |  |  | \* |  | \* | \* | \* | \* | \* | \* |  | \* | \* |  | \* | \* |  |  | \* | \* | \* | \* | \* |  |  |  | \* | \* |  |  | \* |  | \* |  |  | \* |
| 161 | Eutreptia lanowii Steuer, 1904 |  |  | \* |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  |  | \* |
| 162 | Eutreptiea sp. | \* | \* | \* | \* | \* | \* | \* |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* | \* | \* | \* |
| 163 | Lepocinclis acus (O.F.Müller) B.Marin & Melkonian, 2003 |  |  |  |  |  |  |  |  | \* | \* |  |  | \* |  | \* | \* |  | \* |  |  |  | \* | \* | \* | \* |  |  | \* |  |  | \* | \* |  |  | \* | \* |  |  | \* | \* |  | \* | \* |  |  | \* |  |  |  |  |
| 164 | Lepocinclis fusiformis (H.J.Carter) Lemmermann, 1901 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |
| 165 | Strombomonas acuminata (Schmarda) Deflandre, 1930 |  |  |  |  |  |  |  | \* |  | \* |  | \* |  | \* |  | \* | \* |  | \* | \* | \* | \* | \* |  |  | \* | \* | \* |  | \* |  |  | \* | \* |  |  | \* | \* |  | \* | \* | \* |  |  | \* |  | \* | \* |  | \* |
| 166 | Strombomonas samarae (Swirenko) T.G.Popova, 1955 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  | \* | \* |  | \* |  |
| 167 | Trachelomonas armata (Ehrenberg) F.Stein, 1878 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |
| 168 | Trachelomonas intermedia P.A.Dangeard, 1902 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* |
| 169 | Trachelomonas mirabilis Swirenko [Svirenko], 1913 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  |  |  |
| 170 | Trachelomonas sp. |  |  |  |  |  |  |  |  |  | \* |  | \* |  |  | \* |  | \* |  | \* | \* |  |  |  | \* | \* | \* |  |  |  | \* | \* | \* |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |
|  | **Myzozoa (Dinophyceae)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 172 | Alexandrium ostenfeldii (Paulsen) Balech & Tagen,1985 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 173 | Amphidinium carterae Hulburt, 1957 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 174 | Amphidinium sphenoides WüIff, 1916 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175 | Dinophysis acuminata Claparède & Lachmann, 1859 |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 176 | Gonyaulax spinifera (Claparède & Lachmann) Diesing, 1866 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 177 | Gymnodinium fusus Schütt, 1895 |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 178 | Gymnodinium japonicum Hada, 1974 |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 179 | Gyrodinium fusiforme Kofoid & Swezy, 1921 |  |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180 | Gyrodinium lachryma (Meunier) Kofoid & Swezy,1921 |  |  |  | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 181 | Heterocapsa rotundata (Lohmann) Gert Hansen, 1995 | \* | \* | \* |  |  |  | \* | \* |  |  |  | \* |  |  | \* |  | \* |  | \* |  |  |  |  | \* | \* |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 182 | Heterocapsa triquetra (Ehrenberg) Stein, 1883 |  |  |  |  |  |  |  |  | \* | \* |  |  | \* |  |  | \* |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 183 | Lebouridinium glaucum (Lebour) F.Gómez, H.Takayam, D.Moreira & P.López-García, 2016 |  |  |  |  | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* | \* | \* |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 184 | Peridiniella catenata (Levander) Balech, 1977 |  | \* | \* |  |  |  |  |  | \* | \* |  |  | \* |  |  | \* |  | \* |  | \* |  | \* |  |  |  |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 185 | Peridiniella danica (Paulsen) Okolodkov et Dodge, 1995 |  |  |  |  |  | \* |  |  |  |  | \* |  | \* |  |  |  | \* |  |  |  | \* |  |  | \* |  | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 186 | Peridinium sp. |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  | \* |  |  |  | \* |  | \* | \* |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 187 | Prorocentrum lima (Ehrenberg) F.Stein, 1878 |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 188 | Protoperidinium depressum (Bailey) Balech, 1974 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 189 | Protoperidinium granii (Ostf.) Balech, 1974. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 190 | Protoperidinium monacanthum (Broch, 1910) Balech, 1973 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \* |  | \* | \* |  | \* | \* |  | \* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 191 | Protoperidinium pallidum (Ostenfeld) Balech, 1973 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 192 | Protoperidinium pyriforme (Paulsen) Balech, 1974 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 193 | Protoperidinium subinerme (Paulsen) Loeblich III, 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 194 | Scrippsiella trochoidea (Stein) Loeblich III, 1976 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | flagellates 5-15 мкм | \* | \* | \* |  |  |  | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |

## Приложение Ц.3. Видовой состав фитопланктона Обской губы в августе 2023 г (станции продольного профиля).

| **п/№** | **Таксон/№ станции** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Ochrophyta (Bacillariophyceae)** |  |  |  |  |  |  |  |  |
| 1 | *Achnanthes taeniata* | + |  |  |  |  |  |  |  |
| 2 | *Asterionella formosa* |  | + |  | + | + | + | + | + |
| 3 | *Aulacoseira ambigua* |  |  |  | + | + | + | + | + |
| 4 | *Aulacoseira granulata* | + | + | + | + | + | + | + | + |
| 5 | *Aulacoseira islandica* |  |  | + | + | + | + | + | + |
| 6 | *Aulacoseira italica* | + | + |  |  |  |  |  | + |
| 7 | *Aulacoseira subarctica* |  |  |  |  | + | + |  |  |
| 8 | *Chaetoceros debilis* | + |  |  |  |  |  |  |  |
| 9 | *Chaetoceros decipiens* | + |  |  |  |  |  |  |  |
| 10 | *Chaetoceros socialis* | + |  |  |  |  |  |  |  |
| 11 | *Chaetoceros sp. spores* | + | + | + |  |  |  |  |  |
| 12 | *Chaetoceros wighamii* | + | + | + |  |  |  |  |  |
| 13 | *Cocconeis costata* |  |  | + |  |  |  |  |  |
| 14 | *Cocconeis placentula* | + |  |  |  |  |  |  |  |
| 15 | *Cyclostephanos dubius* |  |  |  | + |  |  | + | + |
| 16 | *Cyclotella sp.* |  |  |  | + | + | + | + | + |
| 17 | *Cyclotella meneghiniana* |  |  |  | + | + | + | + | + |
| 18 | *Diatoma tenuis* |  |  |  | + |  | + |  |  |
| 19 | *Diploneis interrupta* |  | + | + |  |  |  |  |  |
| 20 | *Entomoneis sp.* |  |  |  | + | + |  |  | + |
| 21 | *Fragilaria crotonensis* |  |  |  |  |  |  |  | + |
| 22 | *Fragilariopsis cylindrus* |  | + |  |  |  |  |  |  |
| 23 | *Frustulia ventricosa* |  |  |  |  |  |  |  | + |
| 24 | *Gomphonema acuminatum* |  |  | + |  |  |  |  | + |
| 25 | *Lindavia bodanica* |  |  |  | + | + |  | + |  |
| 26 | *Lindavia comta* |  |  |  |  | + |  | + | + |
| 27 | *Melosira arctica* |  | + | + |  |  |  |  |  |
| 28 | *Melosira juergensi* | + |  |  |  |  |  |  |  |
| 29 | *Melosira varians* |  |  | + |  |  |  |  |  |
| 30 | *Navicula perlucens* |  |  |  |  |  |  |  | + |
| 31 | *Navicula sp.1* |  | + | + | + | + | + | + | + |
| 32 | *Navicula sp.2* |  |  | + | + |  | + | + |  |
| 33 | *Navicula transitans var. transitans* |  |  | + |  |  |  |  |  |
| 34 | *Navicula vanhoeffenii* | + | + |  |  |  |  |  |  |
| 35 | *Nitzchia sp.* |  | + |  |  | + |  | + |  |
| 36 | *Nitzschia acicularis* |  |  | + |  |  | + | + | + |
| 37 | *Nitzschia closterium f. minutissima* |  | + | + |  |  |  |  |  |
| 38 | *Nitzschia longissima* |  |  | + |  |  |  |  |  |
| 39 | *Nitzschia palea* |  |  |  |  |  |  |  | + |
| 40 | *Nizchia sp.* | + |  |  |  |  |  |  |  |
| 41 | *Paralia sulcata* |  | + |  |  |  |  |  |  |
| 42 | *Pinnularia gibba* |  |  | + |  |  |  |  | + |
| 43 | *Placoneis placentula* |  |  |  | + | + |  | + |  |
| 44 | *Skeletonema costatum* |  | + |  |  |  |  |  |  |
| 45 | *Stephanodiscus dubius* |  |  |  | + |  | + | + | + |
| 46 | *Stephanodiscus hantzschii* |  |  |  |  |  |  | + | + |
| 47 | *Stephanodiscus pusillus* |  |  |  |  | + | + | + | + |
| 48 | *Surirella crumena* |  |  |  |  |  |  |  | + |
| 49 | *Surirella minuta* | + |  |  |  |  |  |  |  |
| 50 | *Tabellaria fenestrata* |  |  |  | + | + | + | + | + |
| 51 | *Tabellaria flocculosa* |  |  |  | + | + | + | + | + |
| 52 | *Thalassionema nitzschioides* | + |  |  |  |  |  |  |  |
| 53 | *Thalassiosira baltica* |  |  | + |  |  |  |  |  |
| 54 | *Thalassiosira gravida* | + |  |  |  |  |  |  |  |
| 55 | *Thalassiosira ignota* | + | + | + |  |  |  |  |  |
| 56 | *Thalassiosira nordenskioeldii* | + |  |  |  |  |  |  |  |
|  | **Chrysophyceae** |  |  |  |  |  |  |  |  |
| 57 | *Ochromonas spp* | + |  |  |  |  |  |  |  |
|  | **Chlorophyta** |  |  |  |  |  |  |  |  |
| 58 | *Actinastrum hantzschii* |  |  |  |  |  |  |  | + |
| 59 | *Ankistrodesmus arcuatus* |  |  |  | + |  |  | + | + |
| 60 | *Ankistrodesmus falcatus* |  | + | + |  |  |  |  | + |
| 61 | *Binuclearia lauterbornii* |  |  |  | + |  |  |  |  |
| 62 | *Chlamydomonas globosa* |  |  |  |  |  |  | + | + |
| 63 | *Closterium moniliferum* |  |  |  |  |  |  |  | + |
| 64 | *Crucigenia quadrata* |  | + |  |  |  |  |  |  |
| 65 | *Crucigenia tetrapedia* |  |  | + |  |  |  |  |  |
| 66 | *Crucigera irregularis* |  |  |  |  |  |  |  | + |
| 67 | *Desmodesmus magnus* |  |  |  |  |  |  |  | + |
| 68 | *Dictyosphaerium elegans* |  |  |  |  | + |  | + | + |
| 69 | *Golenkiniopsis solitaria* |  | + | + |  |  | + |  |  |
| 70 | *Hegewaldia parvula* |  |  |  | + | + |  |  | + |
| 71 | *Kirchneriella lunaris* |  |  |  | + |  | + |  |  |
| 72 | *Lagerheimia genevensis* |  |  |  |  | + |  | + |  |
| 73 | *Lagerheimia subsalsa* |  |  |  |  | + | + |  |  |
| 74 | *Micractinium pusillum* |  |  |  | + | + | + |  |  |
| 75 | *Monoraphidium contortum* |  | + |  |  |  | + |  | + |
| 76 | *Monoraphidium convolutum* |  |  | + | + |  |  |  |  |
| 77 | *Monoraphidium komarkovae* |  | + | + |  |  | + | + |  |
| 78 | *Oocystis sp.* |  |  |  | + |  |  |  | + |
| 79 | *Pandorina morum* | + |  |  |  |  |  |  | + |
| 80 | *Pediastrum duplex* |  | + |  | + | + | + |  | + |
| 81 | *Pseudopediastrum boryanum* |  |  |  |  |  |  |  | + |
| 82 | *Scenedesmus acuminatus* |  | + | + |  |  |  |  |  |
| 83 | *Scenedesmus quadricauda* |  | + |  |  |  |  | + |  |
| 84 | *Tetrastrum staurogeniiforme* |  |  |  |  |  |  | + |  |
| 85 | *Tetrastrum triacanthum* |  |  |  |  |  |  | + |  |
|  | **Cryptophyta (Cryptophyceae)** |  |  |  |  |  |  |  |  |
| 86 | *Cryptomonas erosa* |  |  |  |  | + | + | + | + |
| 87 | *Cryptomonas ovata* |  |  |  | + |  |  |  |  |
| 88 | *Hemiselmis virescens* |  |  |  |  | + | + | + | + |
| 89 | *Leucocryptos marina* | + |  |  |  |  |  |  |  |
| 90 | *Plagioselmis prolonga* |  |  |  |  |  |  |  | + |
| 91 | *Small cryptomonads 8-10 μm (cf. Chroomonas sp.)* | + | + | + | + | + | + |  |  |
| 92 | *Teleaulax acuta* |  |  |  | + | + |  |  | + |
|  | **Euglenozoa (Euglenoidea)** |  |  |  |  |  |  |  |  |
| 93 | *Astasia captiva* |  | + |  |  |  |  |  |  |
| 94 | *Astasia inflata* |  | + | + |  |  |  |  |  |
| 95 | *Astasia recta* |  |  | + |  |  |  |  |  |
| 96 | *Euglena sp.* |  |  |  | + |  | + |  |  |
| 97 | *Euglena acus* |  | + |  |  |  |  |  |  |
| 98 | *Euglena granulata* |  | + |  |  |  |  |  |  |
| 99 | *Eutreptia lanowii* |  |  | + |  |  |  |  | + |
| 100 | *Eutreptiea sp.* |  | + | + |  |  |  |  |  |
| 101 | *Eutreptiella marina* | + |  |  |  |  |  |  |  |
| 102 | *Heteronema abruptum* | + |  |  |  |  |  |  |  |
| 103 | *Heteronema klebsii* | + |  | + |  |  |  |  |  |
| 104 | *Lepocinclis acus* |  |  |  | + | + |  | + |  |
| 105 | *Lepocinclis fusiformis* |  |  |  |  |  |  |  | + |
| 106 | *Strombomonas acuminata* |  |  |  |  |  | + | + |  |
| 107 | *Strombomonas samarae* |  |  |  |  |  |  |  | + |
| 108 | *Trachelomonas mirabilis* |  |  |  |  |  |  |  | + |
|  | **Cyanobacteria** |  |  |  |  |  |  |  |  |
| 109 | *Anabaena sp.* |  | + |  |  |  |  |  | + |
| 110 | *Aphanizomenon flosaquae* | + | + | + | + | + | + | + | + |
| 111 | *Aphanocapsa delicatissima* |  |  |  | + | + |  | + |  |
| 112 | *Aphanocapsa grevillei* |  |  |  |  |  |  |  | + |
| 113 | *Dolichospermum smithii* |  |  | + |  |  |  |  |  |
| 114 | *Dolichospermum spiroides* |  |  | + |  |  |  |  | + |
| 115 | *Limnococcus limneticus* |  |  |  | + |  | + |  |  |
| 116 | *Merismopedia sp.* |  |  | + |  |  |  |  | + |
| 117 | *Microcyctis aeruginosa* |  |  |  |  |  |  | + | + |
| 118 | *Microcystis pulverea* |  |  |  |  |  |  |  | + |
| 119 | *Microcystis smithii* |  |  | + |  |  |  | + | + |
| 120 | *Microcystis wesenbergii* |  |  |  |  |  |  | + | + |
| 121 | *Oscillatoria granulata var. major* |  |  |  |  |  |  |  | + |
| 122 | *Oscillatoria lacustris* |  |  | + |  |  |  |  | + |
| 123 | *Planktolyngbya limnetica* | + | + | + | + |  | + | + | + |
| 124 | *Planktothrix agardhii* |  | + | + | + | + |  | + | + |
| 125 | *Snowella lacustris* |  | + | + |  |  |  |  | + |
| 126 | *Woronichinia naegeliana* |  | + | + |  | + | + | + |  |
|  | **Haptophyta (Primnesiophyceae)** |  |  |  |  |  |  |  |  |
| 127 | *Coccolithus pelagicus (Wallich) J.Schiller, 1930* | + |  |  |  |  |  |  |  |
| 128 | *Chrysochromulina hirta Manton, 1978* | + |  |  |  |  |  |  |  |
| 129 | *Chrysochromylina sp.* | + |  |  |  |  |  |  |  |
| 130 | *Emiliania huxleyi* | + |  |  |  |  |  |  |  |
|  | **Myzozoa (Dinophyceae)** |  |  |  |  |  |  |  |  |
| 131 | *Alexandrium ostenfeldii* | + |  |  |  |  |  |  |  |
| 132 | *Amphidinium sphenoides* | + |  | + |  |  |  |  |  |
| 133 | *Gonyaulax spinifera* | + |  |  |  |  |  |  |  |
| 134 | *Gymnodinium fusus* | + |  | + |  |  |  |  |  |
| 135 | *Gyrodinium lachryma* |  |  | + |  |  |  |  |  |
| 136 | *Heterocapsa rotundata* | + | + |  | + |  |  |  |  |
| 137 | *Heterocapsa triquetra* | + | + |  |  |  |  | + |  |
| 138 | *Peridiniella catenata* | + |  | + | + | + | + |  |  |
| 139 | *Peridiniella danica* |  |  | + |  |  |  | + |  |
| 140 | *Peridinium sp.* |  |  |  | + | + | + | + |  |
| 141 | *Prorocentrum lima* | + |  |  |  |  |  | + |  |
| 142 | *Protoperidinium depressum* | + |  |  |  |  |  |  |  |
| 143 | *Protoperidinium granii* | + | + |  |  |  |  |  |  |
| 144 | *Protoperidinium pallidum* | + |  |  |  |  |  |  |  |
| 145 | *Protoperidinium subinerme* | + | + |  |  |  |  |  |  |
| 146 | *Scrippsiella trochoidea* | + | + |  |  |  |  |  |  |
| 147 | *flagellates 5-15 мкм* |  | + |  | + | + | + | + | + |
|  | **Всего видов на станцию:** | 43 | 41 | 45 | 38 | 34 | 34 | 44 | 61 |