



Bottom sediment of the Niger River sampled in 1979, Jan 25- Feb 3

Columns:

1. the number by the order
2. laboratory number
3. cross-section number (as at the map)
4. site number (as at the map)
- 5-16 percent of a given particle size, mm
  5. >10
  6. 10-5
  7. 5-2
  8. 2-1
  9. 1-0.5
  10. 0.5-0.25
  11. 0.25-0.1
  12. 0.1-0.05

13. 0.05 – 0.01
14. 0.01-0.005
15. 0.005-0.001
16. <0.001
17. median particle diameter D50, mm;
18. 60% diameter D60, mm
19. 10% diameter D10, mm
20. 90% diameter D90, mm
21. D50/D10
22. S0 Trask  $\sqrt{D75/D25}$
23. S0 Rukhyn
24. Type of sediment

СВОДНАЯ ТАБЛИЦА

результатов лабораторных исследований физико-механических свойств  
грунтов, отобранных со дна и отложений русла р. Ингер в мезень  
с 10 по 12 февраля 1979 г.

№ п/п	№ лаб.	№ отбора	№ точки	Гранулометрический состав													Марка горючих ископаемых			d <sub>50</sub>	d <sub>90</sub>	d <sub>10</sub>	S <sub>0</sub> T <sub>p</sub>	S <sub>0</sub> по Грун- ту
				Различия частот в мм													диаметры							
				Различия частот в мм													диаметры							
				10	10-5	5-2	2-1	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	0.05-0.01	0.01-0.005	0.005-0.001	0.001	Δ 60	Δ 10							
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1.	975	2	2	-	2.0	15.3	44.6	24.3	10.4	1.5	1.3	0.3	0.1	0.2	1.20	1.40	0.50	2.90	2.40	2.57	1.60	гпн		
2.	976	1	15	-	0.2	1.0	18.8	38.7	36.0	3.6	1.2	0.1	0.1	0.3	0.58	0.70	0.30	1.25	1.93	2.10	1.45	K + гп		
3.	977	2	4	0.6	-	1.9	15.7	24.8	49.0	7.4	0.2	0.1	0.1	0.2	0.45	0.53	0.24	1.15	1.80	2.16	1.47	CK + гп		
4.	978	1	2	-	1.0	9.1	21.6	26.3	30.9	9.0	1.5	0.3	0.1	0.2	0.60	0.80	0.24	2.00	2.61	3.62	1.96	K + гп		
5.	979	3	3	-	1.3	9.3	33.2	20.5	22.2	8.9	3.0	1.1	0.1	0.4	0.84	1.10	0.20	2.10	4.20	3.95	1.99	гпн		
6.	980	1	9	-	0.7	2.5	8.0	12.7	47.4	26.0	2.1	0.2	0.1	0.3	0.35	0.41	0.16	1.10	2.19	2.29	1.51	MC + гп		
7.	981	1	3	-	1.3	13.0	39.5	22.6	19.4	3.4	0.3	0.2	0.1	0.1	1.00	1.25	0.34	2.60	2.94	2.56	1.72	гпн		
8.	982	2	11	0.2	0.7	6.2	31.4	25.2	26.4	7.5	1.5	0.6	0.1	0.2	0.73	0.95	0.24	1.60	2.92	3.51	1.87	гпн - K + гп		
9.	983	3	4	-	0.6	2.9	21.0	33.5	39.2	2.0	0.4	0.2	0.1	0.1	0.60	0.71	0.20	1.50	2.14	2.88	1.69	CK + гп		
10.	984	1	4	-	1.5	8.7	30.7	26.2	26.4	5.6	1.0	0.2	0.1	0.2	0.60	1.00	0.20	2.00	2.66	3.50	1.87	гпн		
11.	985	2	10	0.2	0.9	7.3	40.4	30.0	16.1	4.2	0.6	0.1	0.1	0.1	0.80	0.95	0.36	1.90	2.22	2.55	1.60	гпн		
12.	986	3	6	-	2.3	17.0	34.0	18.0	18.6	7.6	1.7	0.3	0.1	0.2	1.10	1.30	0.36	3.00	3.14	3.39	1.84	гпн		
13.	987	9a	10	-	-	-	0.5	4.0	63.1	24.8	6.0	0.9	0.1	0.6	0.30	0.32	0.14	0.45	2.50	1.66	1.96	C		
14.	988	1	14	-	0.6	8.2	22.4	18.9	45.1	3.9	0.6	0.1	0.1	0.1	0.50	0.74	0.31	1.90	1.61	3.00	1.77	CK + гп		
15.	989	3	12	-	0.1	0.9	5.0	16.7	63.9	8.6	2.9	1.1	0.2	0.6	0.37	0.42	0.20	0.80	1.65	1.78	1.34	C + гп		
16.	990	26	6	-	-	-	-	0.3	1.0	15.3	79.5	2.0	0.4	0.7	0.17	0.20	0.10	0.34	1.54	1.64	1.28	M - T		
17.	991	2	1	7.3	10.3	4.6	7.6	22.8	35.5	6.3	5.2	0.1	0.1	0.2	0.54	0.70	0.24	6.0	2.45	4.36	2.09	CK + гп		
18.	992	1	8	-	0.4	0.4	2.8	16.5	47.1	37.2	3.6	1.1	0.3	0.6	0.32	0.37	0.14	0.70	2.28	1.96	1.40	C		
19.	993	1	16	-	0.2	1.0	9.9	39.5	43.1	2.8	2.5	0.5	0.2	0.3	0.50	0.60	0.23	1.1	1.92	2.27	1.51	CK + гп		
20.	994	2	7	0.7	1.1	8.7	25.7	17.5	27.8	12.4	4.1	1.2	0.3	0.5	0.56	0.85	0.15	2.1	3.5	4.3	2.08	K + гп - гпн		
21.	1p	11	3	-	-	-	13.8	9.5	25.0	21.4	28.1	2.5	0.5	1.1	1.1							AK		
22.	2p	11	4	-	-	0.1	0.5	2.1	9.3	16.7	53.2	11.0	1.5	2.2	3.4							AK		
23.	3p	12	3	-	-	1.4	5.4	8.1	57.2	24.2	4.9	0.4	0.1	0.3								C		
24.	4p	12	4	-	-	1.2	5.0	10.4	56.7	22.9	1.6	0.0	0.1	0.1								C		
25.	5p	12a	4	-	-	2.2	13.1	8.2	44.8	26.4	4.7	0.4	0.1	0.1								MC		
26.	6p	13	4	-	-	0.4	0.5	5.2	34.5	44.8	14.1	0.3	0.1	0.1								MC		
27.	7p	14	2	-	-	6.2	21.8	14.3	38.1	10.7	5.3	1.7	0.4	0.5	1.0							CK + гп		
28.	8p	14	3	-	-	6.7	20.3	13.5	30.7	23.1	4.7	0.6	0.1	0.3								CK + гп		
29.	9p	14	4	-	-	8.3	24.0	10.7	28.0	26.6	5.7	0.3	0.1	0.2								K + гп		
30.	10p	15	3	-	-	0.4	0.4	5.2	46.7	37.8	7.3	0.7	0.1	0.5								MC		
31.	15p	17	4	-	-	1.0	8.7	11.1	55.6	18.2	3.9	1.0	0.1	0.3	0.1							CK		
32.	12p	16	3	-	-	2.3	8.3	10.1	44.3	20.3	3.7	0.6	0.1	0.2	0.1							C + гп		

10/2-3/17-82  
Изма  
песок

песок  
песок

СВ  
207



			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
72. 1886	отбор	3 <sup>А</sup>	1.2	-	1.0	4.0	21.4	25.0	33.0	15.6	-	-	-	-	-	-	-	-
73. 1887		3 <sup>А</sup>	3	-	0.4	3.0	29.6	45.3	30.4	1.0	0.3	-	-	-	-	-	-	-
74. 1889		3 <sup>А</sup>	4	-	0.6	0.6	1.2	2.9	9.5	50.1	34.2	1.3	0.2	-	-	-	-	-
75. 1889		3 <sup>В</sup>	5	-	5.8	15.8	30.0	21.3	17.6	7.8	2.0	-	-	-	-	-	-	-
76. 1890		3 <sup>В</sup>	6	6.0	13.4	16.5	22.7	14.2	15.1	10.2	-	-	-	-	-	-	-	-
77. 2027		3	2	-	-	2.0	13.4	25.4	4 <sup>В</sup> 5	16.5	0.2	-	-	-	-	-	-	-
78. 2028		6 <sup>А</sup>	3	-	-	1.8	8.4	26.8	37.4	16.8	8.6	0.2	-	-	-	-	-	-
79. 2029		7 <sup>А</sup>	2	-	5.8	12.9	29.8	30.0	13.6	4.7	3.2	-	-	-	-	-	-	-
80. 2030		2 <sup>А</sup>	1	-	-	0.8	5.7	19.8	38.1	26.1	7.9	0.7	0.4	0.5	-	-	-	-
81. 2032		2	20	-	-	3.8	9.0	26.0	46.0	7.2	6.0	-	-	-	-	-	-	-
82. 2033		2I	-	-	0.3	4.4	12.0	21.6	48.4	11.5	1.8	-	-	-	-	-	-	-
83. 2034		2	-	-	-	0.6	6.0	14.0	65.0	14.0	0.4	-	-	-	-	-	-	-
84. 2035		II	-	-	0.3	2.5	7.9	26.2	55.0	6.0	0.1	-	-	-	-	-	-	-
85. 2036		3	-	-	-	-	-	0.4	26.5	63.9	8.8	0.2	0.2	-	-	-	-	-
86. 2037		I	-	-	1.0	12.4	23.7	22.6	36.3	4.0	-	-	-	-	-	-	-	-
87. 2038		6	-	-	5.2	19.8	38.6	16.4	15.8	2.0	0.2	-	-	-	-	-	-	-
88. 2039		9	-	-	-	2.0	12.0	29.0	52.0	4.6	0.4	-	-	-	-	-	-	-
89. 2040		17	-	-	-	2.8	35.6	34.0	24.4	2.8	0.4	-	-	-	-	-	-	-
90. 2041		5	-	-	-	0.8	5.3	10.4	54.6	25.2	3.7	-	-	-	-	-	-	-
91. 2042		18	-	-	0.4	4.9	28.0	33.2	31.0	1.8	0.7	-	-	-	-	-	-	-
92. 2043		10	-	-	0.6	12.6	25.8	26.2	29.0	4.4	1.4	-	-	-	-	-	-	-
93. 2044		II7	4I.1	-	23.2	14.1	8.2	3.0	3.6	5.1	1.7	-	-	-	-	-	-	-
94. 2045		115	-	-	3.2	16.2	22.6	20.6	27.8	5.4	0.6	-	-	-	-	-	-	-
95. 2046		59	-	-	4.0	21.8	28.8	17.2	16.8	11.2	0.2	-	-	-	-	-	-	-
96. 2047		125	5.4	-	25.5	39.4	12.8	4.6	2.2	5.4	4.7	-	-	-	-	-	-	-
97. 2048		58	-	-	-	0.6	7.2	28.4	59.5	3.8	0.3	-	-	-	-	-	-	-
98. 1891		3 <sup>В</sup>	7	-	2.8	12.3	11.4	17.6	16.3	24.8	14.8	-	-	-	-	-	-	-
99. 1893		3 <sup>В</sup>	9	-	-	-	3.0	15.3	24.4	49.1	10.2	-	-	-	-	-	-	-
100. 1894		4	1	-	-	-	-	-	0.5	3.5	33.7	24.4	22.4	5.6	9.8	-	-	-
101. 1895		4	2	-	-	-	1.0	10.0	31.0	51.8	6.0	0.1	0.1	-	-	-	-	-
102. 1896		4	3	-	-	-	3.8	12.0	22.5	37.2	3.7	0.8	-	-	-	-	-	-
103. 1897		4 <sup>А</sup>	4	-	6.9	5.2	5.2	19.0	12.4	29.6	4.7	-	-	-	-	-	-	-
104. 1899		4 <sup>В</sup>	6	-	0.5	0.5	4.3	16.1	20.8	51.0	6.8	-	-	-	-	-	-	-
105. 1866		1 <sup>В</sup>	3	-	-	-	3.5	28.2	31.8	33.7	3.3	0.5	-	-	-	-	-	-
106. 1883		2 <sup>В</sup>	9	-	-	2.0	5.6	29.4	30.0	31.0	1.0	-	-	-	-	-	-	-
107. 1864		1 <sup>В</sup>	1	-	-	0.9	1.6	11.8	45.4	30.0	10.1	0.2	0.0	-	-	-	-	-
108. 1865		1 <sup>В</sup>	2	-	2.0	7.4	26.9	25.0	33.0	5.7	-	-	-	-	-	-	-	-
109. 1867		1 <sup>В</sup>	4	2.9	2.5	8.3	18.0	21.7	29.3	16.5	0.8	-	-	-	-	-	-	-
110. 1868		1 <sup>В</sup>	5	-	5.0	16.1	24.4	18.1	24.0	10.4	-	-	-	-	-	-	-	-
111. 1869		1 <sup>В</sup>	6	1.5	6.6	14.7	24.9	17.7	17.6	15.2	1.9	-	-	-	-	-	-	-
112. 1872		1 <sup>А</sup>	9	5.3	10.5	14.9	18.6	16.2	18.1	6.5	3.7	0.2	0.0	-	-	-	-	-
113. 1873		1 <sup>А</sup>	10	6.0	7.0	15.5	8.5	7.2	23.0	27.3	5.4	-	-	-	-	-	-	-
114. 1875		2 <sup>А</sup>	1	-	0.2	4.6	6.0	7.1	36.5	40.2	5.1	0.3	-	-	-	-	-	-
115. 1876		2 <sup>А</sup>	2	-	0.8	5.2	18.0	27.0	36.0	13.0	-	-	-	-	-	-	-	-

9.55 9.75  
 0.90 0.95  
 0.18 0.16  
 1.05 1.30  
 1.40 1.90  
 0.45 0.50  
 0.41 0.49  
 1.00 1.20  
 0.36 0.43  
 0.43 0.50  
 0.33 0.55  
 0.20 0.25  
 0.02 0.06  
 0.27 0.32  
 0.20 0.24  
 0.23 0.29  
 0.47 0.65  
 0.34 0.53  
 0.39 0.58  
 0.28 0.34  
 0.67 0.90  
 0.75 1.00  
 0.90 1.20  
 0.4 1.3  
 1.0 1.35  
 0.46 0.75  
 0.32 0.36  
 0.51 0.70



			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
161.	1957	отбор	25	т.1	-	-	-	-	6.0	4.8	2.2	19.2	39.6	6.8	11.7	9.7							
162.	1959		25	4	3.2	2.7	15.7	27.8	18.0	14.4	4.5	13.7	1.0	0.2	0.1								
163.	1960		11	6	-	0.7	2.9	3.2	50.2	37.8	4.7	0.5											
164.	1962		28	8	-	0.5	13.4	31.7	23.7	12.0	6.0	9.6	2.1	0.1	0.8								
165.	1963		26	9	-	-	-	-	1.0	1.4	2.3	20.5	35.4	9.8	16.6	13.9							
166.	1964		37	4	-	-	-	-	2.3	10.0	27.2	33.1	13.4	3.7	6.9	3.4							
167.	1965		27	3	11.1	14.6	13.9	5.9	7.9	5.4	3.6	34.0	14.3	1.6	2.5	2.1							
168.	1870	√1^	7		-	1.4	1.6	10.4	28.8	44.5	11.7	1.6											
169.	1874	√1^	11		-	-	0.7	2.3	7.8	34.7	52.0	2.5											
170.	1878	√2^	4		1.8	0.8	8.8	46.9	17.5	11.8	12.2	0.2											
171.	1880	√2^n	6		-	-	1.4	29.7	43.6	23.0	1.7	0.6											
172.	1891	√3^	7		1.1	1.1	5.9	33.0	28.6	22.9	7.1	0.3											
173.	1900	√4^	7		-	-	3.4	15.0	36.0	44.2	1.4	0.2											
174.	1915	√6^n	7		-	-	1.2	10.0	30.7	56.0	10.5	1.6											
175.	1919	√7^	1		-	0.2	4.2	16.2	19.9	49.0	11.2	2.3											
176.	1910	√7	2?		-	2.4	4.2	15.2	25.2	40.6	11.2	1.2											
177.	1930	√8^	2		-	0.2	1.7	13.2	25.0	45.6	10.9	0.4											
178.	1938	√9^	1		-	0.2	2.2	11.4	27.0	48.6	17.0	0.6											
179.	1945	√9^n	8		-	1.1	3.3	19.2	24.0	43.6	7.7	1.1											
180.	2067	т.118т			7.4	13.5	29.1	16.1	14.7	9.0	1.2	0.7	0.1	0.4									
181.	1923	√7 5(10.м)	7		2.0	2.1	6.4	12.2	11.5	36.8	21.3	6.9	0.6	0.2									
182.	1925	√7^n	7		-	0.9	13.6	37.0	21.4	21.2	5.9												
183.	1926	√7^n	8		-	0.8	7.8	27.6	27.9	30.0	5.7												
184.	1927	√7^	9		-	-	1.3	9.3	24.5	60.0	5.0												
185.	1909	√5^	8		2.0	8.6	24.5	29.4	11.6	16.0	7.3	0.6											
186.	1928	√7^	10		-	-	6.0	14.0	56.0	24.0													
187.	1924	√7^n	6		3.6	15.7	23.8	20.5	11.8	13.7	5.9	5.0											
188.	1929	√8^	1		-	1.2	2.6	9.6	20.0	55.6	10.6	0.1	0.3	0.0									
189.	1998	√4^n	5		-	0.2	3.2	28.5	31.2	33.7	3.2												
190.	1931	√8^	3		-	0.5	4.5	12.9	29.5	40.8	17.8												
191.	1935	√8^n	8		-	2.8	3.0	7.8	13.1	50.0	23.3												
192.	1940	√9^	3		-	2.4	11.6	25.3	18.7	29.7	10.3												
193.	1934	√8^	6		-	0.9	6.9	13.6	16.6	35.9	24.4	1.7											
194.	1933	√8^	5		-	3.0	6.8	16.0	30.2	39.8	4.2												
195.	1942	√9^	5		-	0.7	5.3	23.3	24.6	33.1	13.0												
196.	1921	√7^	3		1.0	2.9	10.7	25.3	23.5	28.4	8.2												
197.	1918	√6^	10		-	-	3.7	13.8	17.3	53.2	13.0												
198.	1939	√9^	2		-	-	2.5	6.4	13.0	35.2	41.2	0.7											
199.	1941	√9^	4		-	-	-	4.7	14.2	63.0	16.0	0.1	0.1										
200.	1922	√7^	4		-	-	6.4	28.2	4.3	33.8	7.3												

0.44 0.55  
0.24 0.30  
1.10 1.30  
0.64 0.85  
0.80 1.00  
0.55 0.65  
0.42 0.45  
0.43 0.50  
0.49 0.61  
0.45 0.53  
0.39 0.43  
0.40 0.62  
2.2 3.2  
0.33 0.45  
1.04 1.25  
0.25 0.95  
0.43 0.78  
1.4 1.55  
0.35 0.40  
0.70 1.10  
0.41 0.45  
0.21 0.90  
0.48 0.60  
0.36 0.42  
0.63 1.05  
0.41 0.48  
0.57 0.72  
1.60 0.97  
0.75 1.00  
0.41 0.46  
0.30 0.35  
0.36 0.41  
0.70 1.00

