

Depth (cm)	Weight (g)	Quality of fit	Th-232 (ppm)	Th SD	U-238 (ppm)	U SD
2	33.00	0.97	13.77	1.9	3.70	0.8
4						
6						
8	31.00	0.89	12.50	1.9	3.60	0.8
10						
12						
14	37.53	1.06	9.50	1.8	8.10	0.8
16						
18						
20	41.43	0.97	13.00	1.6	4.30	0.7
22						
24						
26	43.29	1.01	11.30	1.5	2.90	0.6
28						
30						
32	45.57	0.97	13.30	1.4	2.50	0.3
34						
36						
38	46.39	1.00	13.00	1.4	3.40	0.6
40						
42						
44	45.85	1.02	13.10	1.5	3.50	0.6
46						
48						
50	45.46	1.00	10.80	1.5	3.80	0.6
52						
54						
56	49.94	1.00	10.30	1.3	3.00	0.5
58						
60						
62	44.03	0.98	10.90	1.5	3.10	0.6
64						
66						
68	48.67	1.10	11.30	1.5	4.10	0.6
70						
72						
74	51.34	0.99	11.70	1.3	2.50	0.6
76						
78						
80	54.26	1.04	11.70	1.3	2.10	0.5
82						
84						
86						

K-40 (%)	K SD	Cs-137 (Bq/kg)	Cs SD
3.10	0.4	78	9
3.80	0.4	78	9
2.60	0.3	67	8
3.20	0.3	91	8
2.50	0.3	77	7
2.70	0.3	87	7
2.60	0.3	79	7
2.50	0.3	91	7
2.80	0.3	90	7
2.50	0.2	84	7
2.40	0.3	155	8
3.00	0.3	158	8
2.50	0.2	169	8
2.90	0.2	166	8

Measuring period

60 min

Depth (cm)	Weight (g)	Quality of fit	Th-232 (ppm)	Th SD	U-238 (ppm)	U SD
2	32.47	0.92	12.70	1.9	3.80	0.8
4						
6						
8	35.86	0.99	12.40	1.8	4.60	0.7
10						
12						
14	34.12	0.94	10.00	1.8	3.50	0.7
16						
18						
20	30.53	0.93	11.50	2.0	3.50	0.8
22						
24						
26	33.87	0.93	10.20	1.8	2.60	0.7
28						
30						
32	39.89	0.89	13.30	1.5	2.10	0.6
34						
36						
38	35.70	0.90	10.50	1.7	3.50	0.7
40						
42						
44	39.90	0.98	10.30	1.6	2.80	0.7
46						
48						
50	39.48	0.92	9.10	1.6	2.10	0.6
52						
54						
56	39.43	1.05	10.60	1.8	2.50	0.7
58						
60						
62	33.03	0.95	8.20	1.9	2.90	0.8
64						
66						
68	35.63	1.02	4.30	1.9	2.50	0.8
70						
72						
74	43.83	1.06	6.30	1.6	2.20	0.7
76						
78						
79						

K-40 (%)	K SD	Cs-137 (Bq/kg)	Cs SD
2.80	0.3	96	9
2.70	0.3	112	9
2.50	0.3	11	9
2.30	0.3	149	10
3.00	0.3	144	10
2.40	0.3	149	8
2.70	0.3	226	10
2.50	0.3	174	9
2.80	0.3	184	9
3.00	0.3	260	11
2.60	0.3	354	13
3.40	0.3	339	13
3.10	0.3	439	12

Measuring period
60 min

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148
150

Depth (cm)	Weight (g)	Quality of fit	Th-232 (ppm)	Th SD	U-238 (ppm)	U SD
2	37.41	0.98	9.30	1.7	2.30	0.7
4						
6						
8	36.74	1.08	4.20	2.0	2.90	0.8
10						
12						
14	43.67	1.29	3.90	1.9	2.20	0.8
16						
18						
20	42.11	1.01	12.50	1.5	3.70	0.6
22						
24						
26	44.7	1.00	13.80	1.5	3.60	0.6
28						
30						
32	38.88	1.01	14.00	1.7	4.30	0.7
34						
36						
38	39.30	1.03	11.20	1.6	4.10	0.7
40						
42						
44	34.57	0.98	13.50	1.8	3.70	0.7
46						
48						
50	32.77	0.94	10.10	1.8	5.30	0.8
52						
54						
56	37.78	1.06	13.10	1.8	5.50	0.7
58						
60						
62	46.54	0.90	11.10	1.3	3.70	0.5
64						
66						

K-40 (%)	K SD	Cs-137 (Bq/kg)	Cs SD
2.20	0.3	251	11
2.80	0.3	692	16
2.70	0.3	791	17
2.30	0.3	63	7
2.70	0.3	18	6
2.40	0.3	13	7
2.50	0.3	25	7
2.30	0.3	21	7
2.50	0.3	16	7
2.70	0.3	11	7
2.40	0.2	18	5

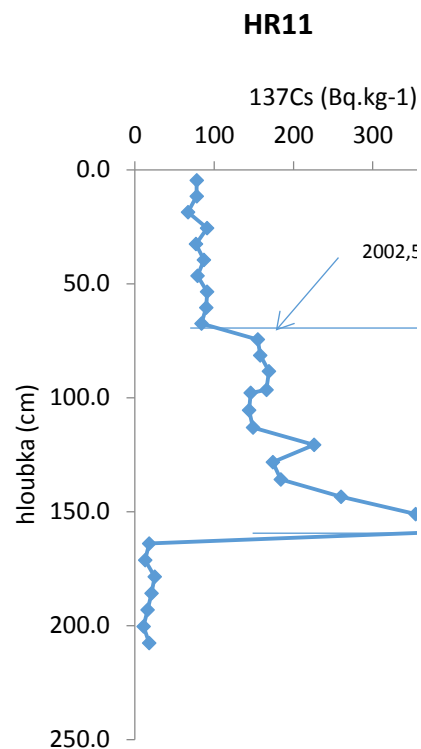
Measuring period
60 min

132
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Jsou zadány hodnoty hmotnostní aktivity ^{137}Cs ze tří jader přehradních sedimentů - Hamerský rybník a Vaším úkolem je vykreslit hloubkovou distribuci ^{137}Cs ve všech třech vrtech, identifikovat pík ^{137}Cs (Če

jádro HR11

název vzorku	hloubka (cm)	^{137}Cs (Bq.kg ⁻¹)
HR11/1	4.7	78
HR11/1	11.6	78
HR11/1	18.6	67
HR11/1	25.6	91
HR11/1	32.6	77
HR11/1	39.5	87
HR11/1	46.5	79
HR11/1	53.5	91
HR11/1	60.5	90
HR11/1	67.5	84
HR11/1	74.4	155
HR11/1	81.4	158
HR11/1	88.4	169
HR11/1	96.5	166
HR11/2	97.9	146
HR11/2	105.4	144
HR11/2	113.0	149
HR11/2	120.6	226
HR11/2	128.2	174
HR11/2	135.8	184
HR11/2	143.4	260
HR11/2	151.0	354
HR11/2	158.6	399
HR11/3	163.9	18
HR11/3	171.2	13
HR11/3	178.5	25
HR11/3	185.8	21
HR11/3	193.0	16
HR11/3	200.3	11
HR11/3	207.6	18



HR11: 5,1 cm/rok

HR11: 0.19546

14.54224

HR3/1	2	2.564103
HR3/1	4	5.128103
HR3/1	8	7.692103
HR3/1	10	10.2561
HR3/1	12	12.8201
HR3/1	14	15.3841
HR3/1	16	17.9481
HR3/1	18	20.5121
HR3/1	20	23.0761
HR3/1	22	25.6401
HR3/1	24	28.2041
HR3/1	26	30.7681
HR3/1	28	33.3321
HR3/1	30	35.8961
HR3/1	32	38.4601
HR3/1	34	41.0241
HR3/1	36	43.5881
HR3/1	38	46.1521
HR3/1	40	48.7161
HR3/1	42	51.2801

HR3/1		53.8441
HR3/1	44	56.4081
HR3/1	46	58.9721
HR3/1	48	61.5361
HR3/1	50	64.1001
HR3/1	52	66.6641
HR3/1	54	69.2281
HR3/1	56	71.7921
HR3/1	58	74.3561
HR3/1	60	76.9201
HR3/1	62	79.4841
HR3/1	64	82.0481
HR3/1	66	84.6121
HR3/1	68	87.1761
HR3/1	70	89.7401
HR3/1	72	92.3041
HR3/1	74	94.8681
HR3/1	76	97.4321
HR3/1	78	99.9961

HR3/2	2	73.1761
HR3/2	4	76.6761
HR3/2	6	80.1761
HR3/2	8	83.6761
HR3/2	10	87.1761
HR3/2	12	90.6761
HR3/2	14	94.1761
HR3/2	16	97.6761
HR3/2	18	101.1761
HR3/2	20	104.6761
HR3/2	22	108.1761
HR3/2	24	111.6761
HR3/2	26	115.1761
HR3/2	28	118.6761
HR3/2	30	122.1761
HR3/2	32	125.6761
HR3/2	34	129.1761
HR3/2	36	132.6761
HR3/2	38	136.1761
HR3/2	40	139.6761

VRCH1	1.5
VRCH1	2.5
VRCH1	3.5
VRCH1	5
VRCH1	6.5
VRCH1	9
VRCH1	11
VRCH1	15.5

VRCH2	2
VRCH2	4
VRCH2	6
VRCH2	8
VRCH2	10
VRCH2	12
VRCH2	14
VRCH2	16
VRCH2	19

VRCH4/1	2	2.5
VRCH4/1	4	5
VRCH4/1	6	7.5
VRCH4/1	8	10
VRCH4/1	10	12.5
VRCH4/1	12	15
VRCH4/1	14	17.5
VRCH4/1	16	20
VRCH4/1	18	22.5
VRCH4/1	20	25
VRCH4/1	22	27.5
VRCH4/1	24	30
VRCH4/1	26	32.5
VRCH4/1	28	35
VRCH4/1	30	37.5
VRCH4/1	32	40
VRCH4/1	34	42.5
VRCH4/1	36	45
VRCH4/1	38	47.5
VRCH4/1	40	50
VRCH4/1	42	52.5
VRCH4/1	44	55
VRCH4/1	46	57.5
VRCH4/1	48	60
VRCH4/1	50	62.5
VRCH4/1	52	65
VRCH4/1	54	67.5
VRCH4/1	56	70
VRCH4/1	58	72.5
VRCH4/1	60	75
VRCH4/1	62	77.5
VRCH4/1	64	80
VRCH4/1	66	82.5
VRCH4/1	68	85
VRCH4/1	70	87.5
VRCH4/1	72	90
VRCH4/1	74	92.5
VRCH4/1	76	95
VRCH4/1	78	97.5

VRCH4/1	80	100
VRCH4/2	4	84.394
VRCH4/2	6	87.096
VRCH4/2	8	89.798
VRCH4/2	10	92.5
VRCH4/2	12	95.202
VRCH4/2	14	97.904
VRCH4/2	16	100.606
VRCH4/2	18	103.308
VRCH4/2	20	106.01
VRCH4/2	22	108.712
VRCH4/2	24	111.414
VRCH4/2	26	114.116
VRCH4/2	28	116.818
VRCH4/2	30	119.52
VRCH4/2	32	122.222
VRCH4/2	34	124.924
VRCH4/2	36	127.626
VRCH4/2	38	130.328
VRCH4/2	40	133.03
VRCH4/2	42	135.732
VRCH4/2	44	138.434
VRCH4/2	46	141.136
VRCH4/2	48	143.838
VRCH4/2	50	146.54
VRCH4/2	52	149.242
VRCH4/2	54	151.944
VRCH4/2	56	154.646
VRCH4/2	58	157.348
VRCH4/2	60	160.05
VRCH4/2	62	162.752
VRCH4/2	66	165.454
VRCH4/2	68	168.156
VRCH4/2	70	170.858
VRCH4/2	72	173.56
VRCH4/2	74	176.262
VRCH5	2	0
VRCH5	4	0
VRCH5	6	0
VRCH5	8	0
VRCH5	10	0
VRCH5	12	0
VRCH5	14	0
VRCH5	16	0
VRCH5	18	0
VRCH5	20	0
VRCH5	22	0

VRCH5	24	0
VRCH5	26	0
VRCH5	28	0
VRCH5	30	0
VRCH5	32	0
VRCH5	34	0
VRCH5	36	0
VRCH5	38	0
VRCH5	40	0
VRCH5	43	0
VRCH5	46	0
VRCH5	49	0
KONEC	KONEC	KONEC

VRCH4/1	2
VRCH4/1	4
VRCH4/1	6
VRCH4/1	8
VRCH4/1	10
VRCH4/1	12
VRCH4/1	14
VRCH4/1	16
VRCH4/1	18
VRCH4/1	20
VRCH4/1	22
VRCH4/1	24
VRCH4/1	26
VRCH4/1	28
VRCH4/1	30
VRCH4/1	32
VRCH4/1	34
VRCH4/1	36
VRCH4/1	38
VRCH4/1	40
VRCH4/1	42
VRCH4/1	44
VRCH4/1	46
VRCH4/1	48
VRCH4/1	50
VRCH4/1	52
VRCH4/1	54
VRCH4/1	56
VRCH4/1	58
VRCH4/1	60
VRCH4/1	62
VRCH4/1	64
VRCH4/1	66
VRCH4/1	68
VRCH4/1	70

VRCH4/1	72
VRCH4/1	74
VRCH4/1	76
VRCH4/1	78
VRCH4/1	80

VRCH4/2	4
VRCH4/2	6
VRCH4/2	8
VRCH4/2	10
VRCH4/2	12
VRCH4/2	14
VRCH4/2	16
VRCH4/2	18
VRCH4/2	20
VRCH4/2	22
VRCH4/2	24
VRCH4/2	26
VRCH4/2	28
VRCH4/2	30
VRCH4/2	32
VRCH4/2	34
VRCH4/2	36
VRCH4/2	38
VRCH4/2	40
VRCH4/2	42
VRCH4/2	44
VRCH4/2	46
VRCH4/2	48
VRCH4/2	50
VRCH4/2	52
VRCH4/2	54
VRCH4/2	56
VRCH4/2	58

VRCH4/2	60
VRCH4/2	62
VRCH4/2	66
VRCH4/2	68
VRCH4/2	70
VRCH4/2	72
VRCH4/2	74
VRCH5	2
VRCH5	4
VRCH5	6
VRCH5	8
VRCH5	10
VRCH5	12
VRCH5	14
VRCH5	16
VRCH5	18
VRCH5	20
VRCH5	22
VRCH5	24
VRCH5	26
VRCH5	28
VRCH5	30
VRCH5	32
VRCH5	34
VRCH5	36
VRCH5	38
VRCH5	40
VRCH5	43
VRCH5	46
VRCH5	49

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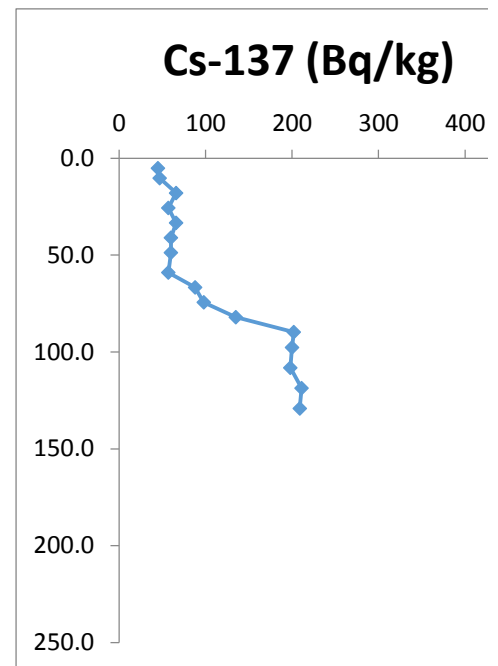
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jádro HR3

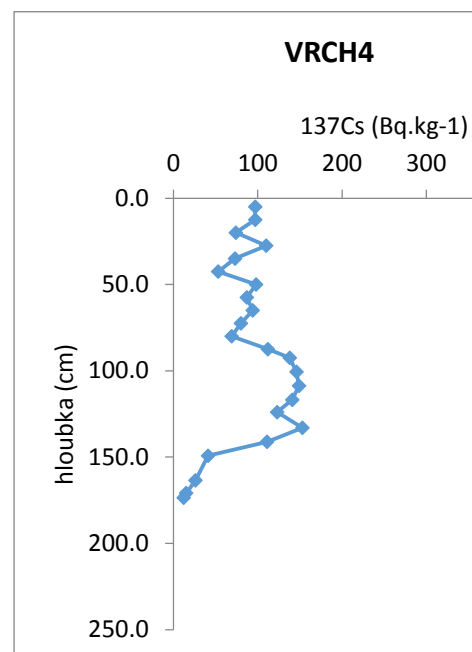
název vzorku	hloubka (cm)	Cs-137 (Bq/kg)
HR3-1	5.1	45
HR3-1	10.3	47
HR3-1	17.9	66
HR3-1	25.6	57
HR3-1	33.3	66
HR3-1	41.0	60
HR3-1	48.7	60
HR3-1	59.0	57
HR3-1	66.7	88
HR3-1	74.4	98
HR3-1	82.0	135
HR3-1	89.7	202
HR3-2	97.7	200
HR3-2	108.2	198
HR3-2	118.7	211
HR3-2	129.2	209



500

jádro VRCH4

název vzorku	hloubka (cm)	¹³⁷ Cs (Bq.kg ⁻¹)
VRCH4/1	5.0	97
VRCH4/1	12.5	97
VRCH4/1	20.0	74
VRCH4/1	27.5	110
VRCH4/1	35.0	73
VRCH4/1	42.5	53
VRCH4/1	50.0	98
VRCH4/1	57.5	87
VRCH4/1	65.0	94
VRCH4/1	72.5	80
VRCH4/1	80.0	69
VRCH4/1	87.5	112
VRCH4/2	92.5	138
VRCH4/2	100.6	146
VRCH4/2	108.7	149
VRCH4/2	116.8	141
VRCH4/2	124.0	123
VRCH4/2	133.0	153
VRCH4/2	141.1	111
VRCH4/2	149.2	41
VRCH4/2	163.5	26
VRCH4/2	170.9	15
VRCH4/2	173.6	12



400 500