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MODELE MATHEMATIQUE DE LA
POLLUTION EN MER DU NORD.

TECHNICAL REPORT

1975/SED.01

This paper not to be cited without prior reference to the author.

SORPTIE-EIGENSCHAPPEN VAN SEDIMENTEN
VAN DE NOORDZEE.

M.MEEUSSEN, Laboratorium voor recente sedimentologie
van het K. B. I. N.
o.l.v. A; BASTIN.

juni 1975

Bepaling der Kd in Zeewater

Bodemmonster	Cd ¹⁰⁹ -tracer	Co ⁶⁰ -tracer
	Kd ml/g	Kd ml/g
< 150 μ 09 (K)	65	135
< 300 μ		
01	7,2	9,2
02	< 5	< 5
03	< 5	< 5
04	< 5	< 5
06	6,4	< 5
08	< 5	< 5
09 z	< 5	< 5
10	< 5	< 5
11	< 5	< 5
17	< 5	< 5
18	< 5	< 5
19	< 5	5,1
22	< 5	< 5
23	< 5	< 5
24	< 5	< 5
51	< 5	< 5
1121	< 5	< 5
1125	< 5	< 5
1424	< 5	< 5
1431	< 5	< 5
1632	< 5	< 5
1699	< 5	< 5
1707	< 5	< 5
1991	< 5	< 5
1999	< 5	< 5
2007	< 5	< 5

Bepaling der Kd in Zeewater

Mn⁵⁴ -tracer

Bodemmonster	Kd
< 150 μ	ml/g
09K	99
< 300 μ	
01	13
02	5,7
03	7,0
04	< 5
06	14
08	< 5
09 Z	< 5
10	< 5
11	< 5
17	< 5
18	< 5
19	< 5
22	< 5
23	< 5
24	< 5
51	< 5
1121	13
1125	< 5
1424	< 5
1431	< 5
1632	< 5
1699	< 5
1707	< 5
1991	< 5
1999	< 5
2007	< 5

Bepaling der Kd in Zeewater

Zn⁶⁵ - tracer

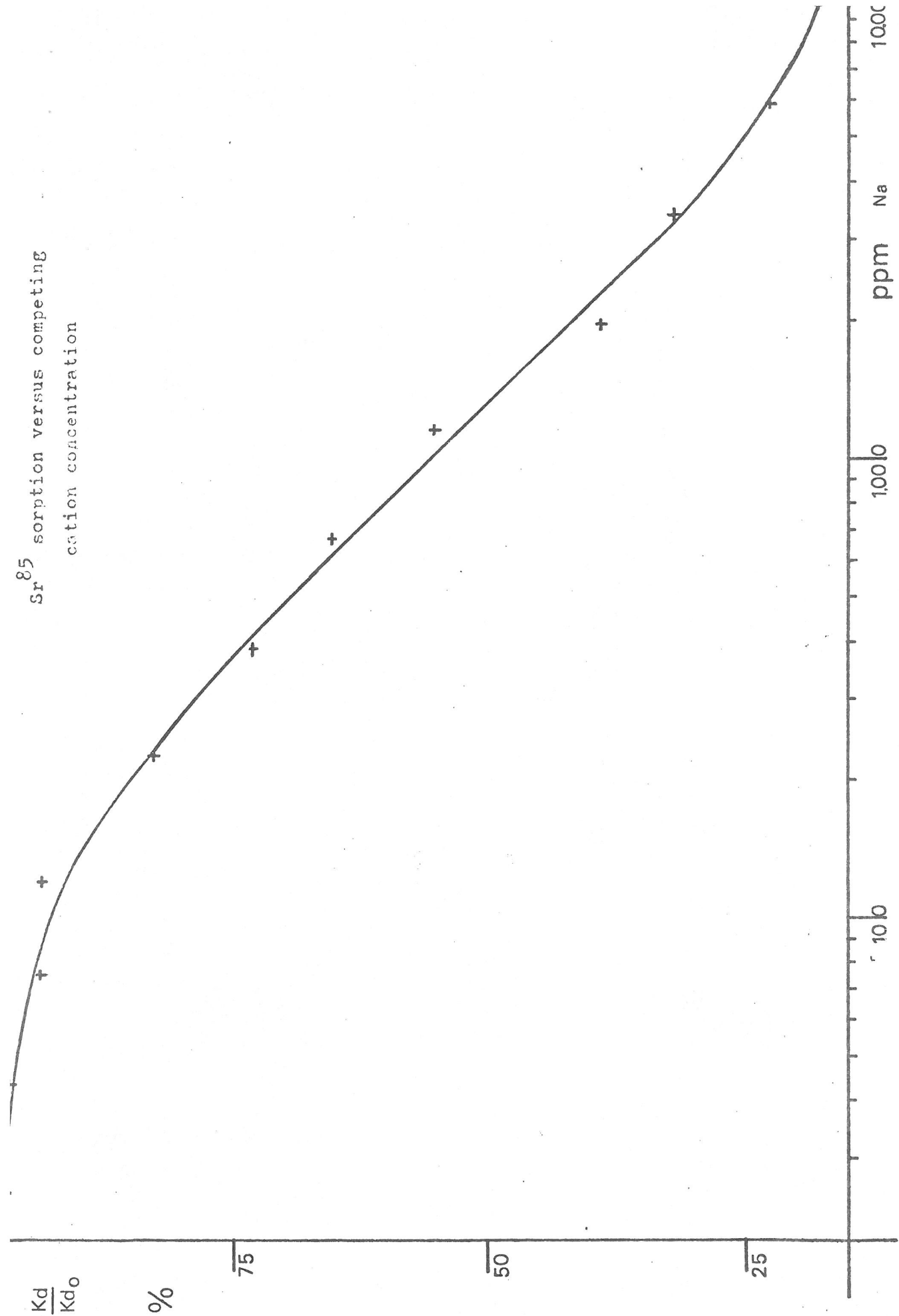
Bodemmonster	Kd
< 150 μ	ml/g
09 K	2.020
<hr/>	
< 300 μ	
01	
02	140
03	150
	89
<hr/>	
04	
06	50
08	170
	21
<hr/>	
09Z	
10	92
11	110
	100
<hr/>	
17	
18	65
19	47
	44
<hr/>	
22	
23	55
24	38
	46
<hr/>	
51	
1121	110
1125	37
	48
<hr/>	
1484	
1431	46
1632	74
	43
<hr/>	
1699	
1707	52
1991	51
	75
<hr/>	
1999	
2007	50
	70

Invloed van Na⁺ op de Sorptie
van Sr⁸⁵

Bodemmonster : 1098 <150 μ

ppm Na ⁺	% Kd/Kd ₀
0	100
25,3	97,3
25,3	97,9
43,7	97,1
75,3	94,0
130	93,8
224	82,7
386	73,0
666	65,2
1150	55,1
1980	38,8
3410	31,8
5880	22,4
9800	17,8

⁸⁵Sr sorption versus competing cation concentration



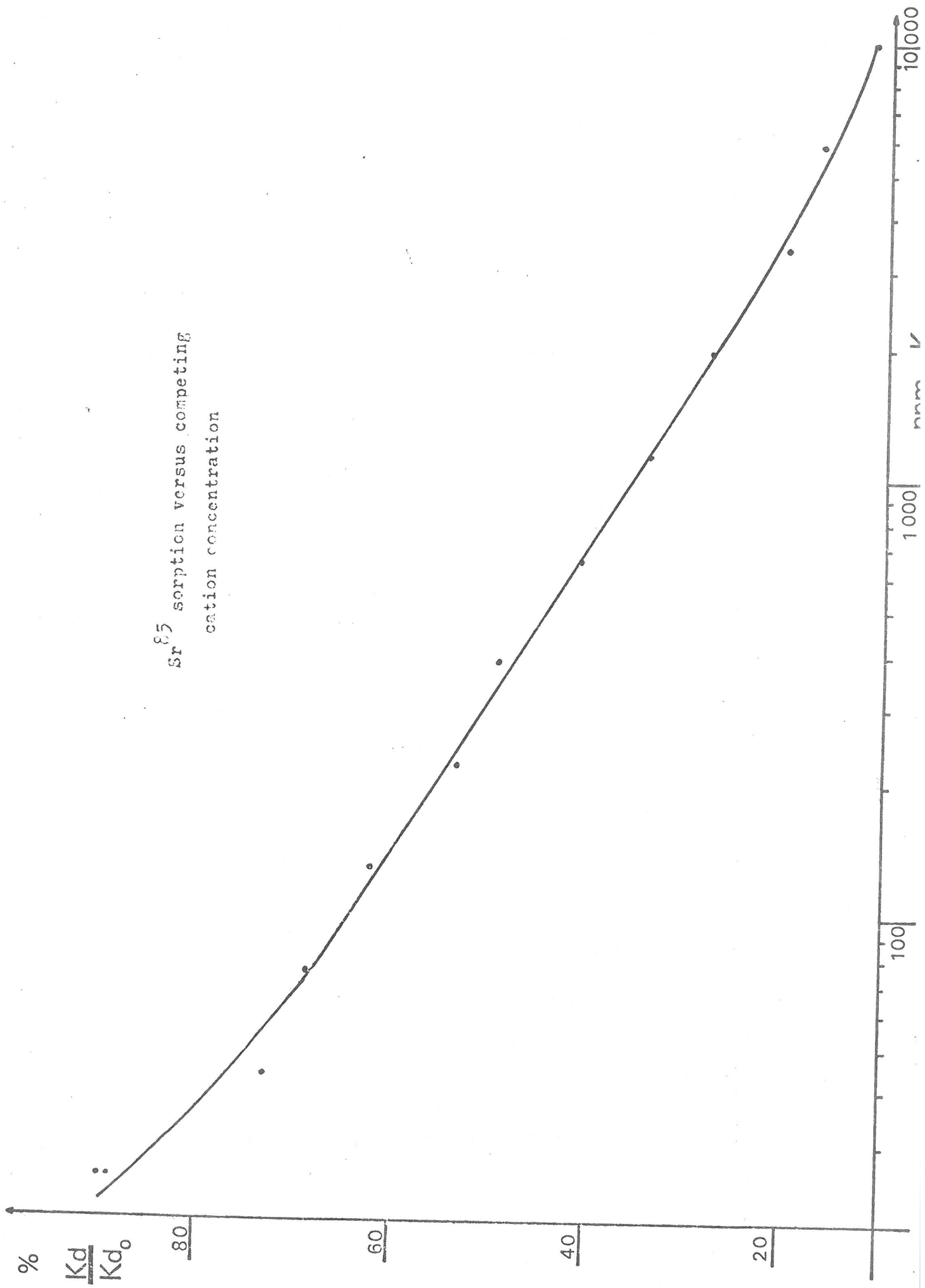
Invloed van K^+ op de sorptie

van Sr^{85}

Bodemmonster: 1098 < 150 μ

ppm K^+	% K_d/K_{d_0}
0	100
24,9	88,7
24,9	89,7
43,0	72,9
74,2	68,8
128	62,7
220	54,0
380	49,9
655	41,7
1130	34,5
1950	28,3
3360	20,3
5790	16,8
9980	11,4

^{85}Sr sorption versus competing
cation concentration



Bepaling van de capaciteit der zeebodemmonsters
t.o.v. Sr 1N + Sr⁸⁵-tracer.

Monster <150 μ	Capaciteit meq/g
0005	2,34
0054	0,47
1007	0,28
1021	0,85
1026	3,60
1034	1,38
1035	0,76
1050	2,20
1065	1,18
1096	1,35
1097	0,32
1098	0,45