'A provisional exclusion map - the by-product of attempts at deletion mapping' by Professor Malcolm Andrew Ferguson-Smith

Publication/Creation

c.1960s-c.1970s

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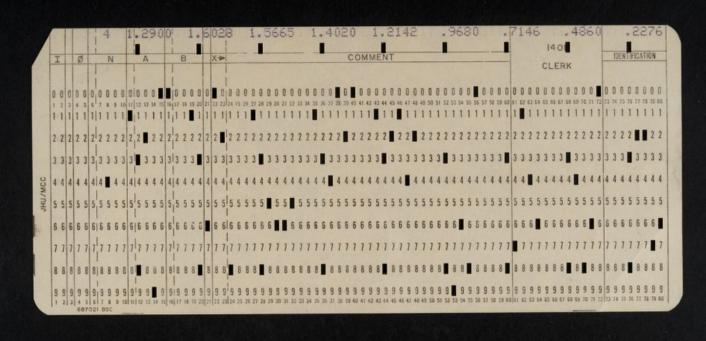
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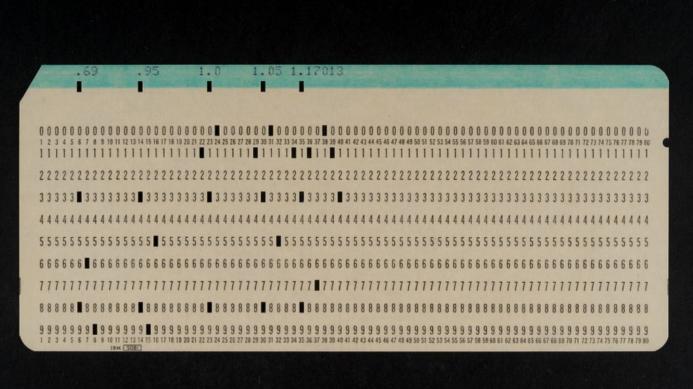
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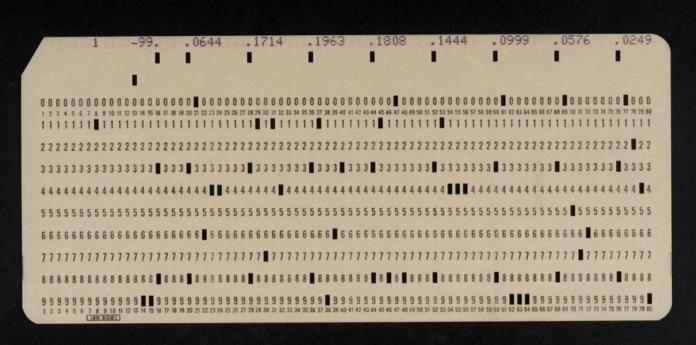
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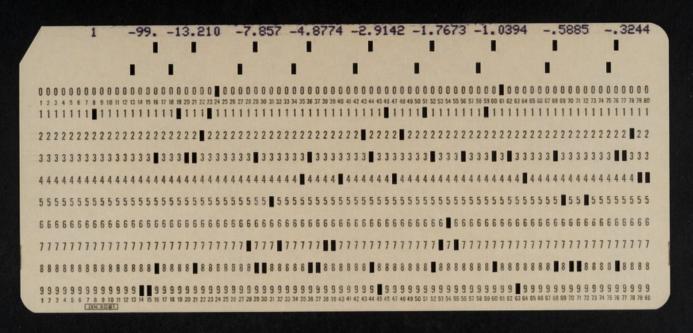
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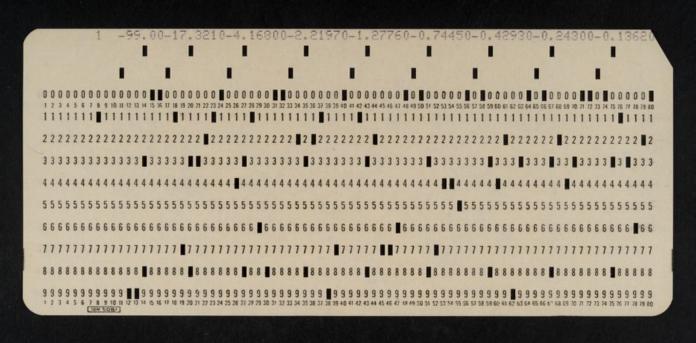


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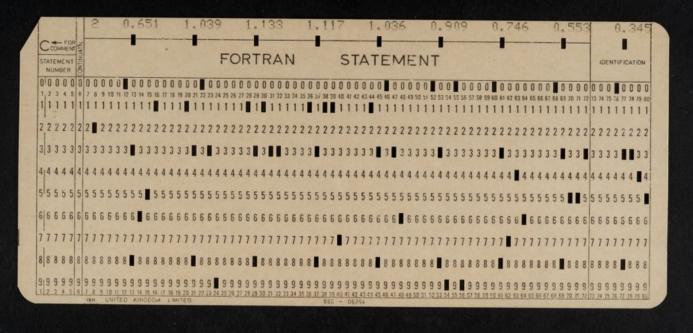
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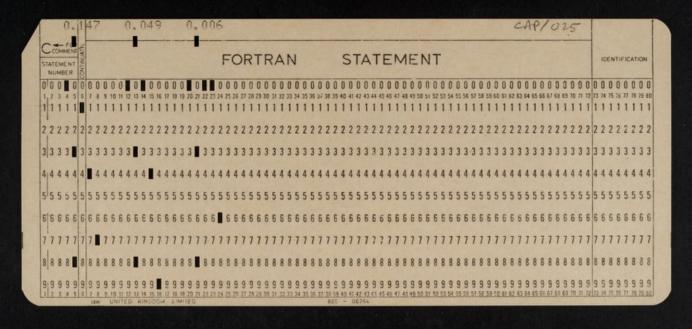
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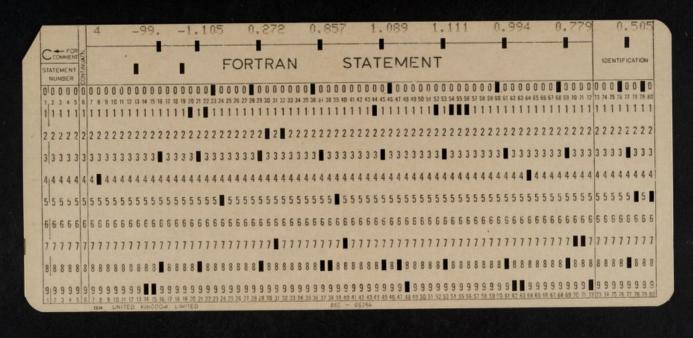
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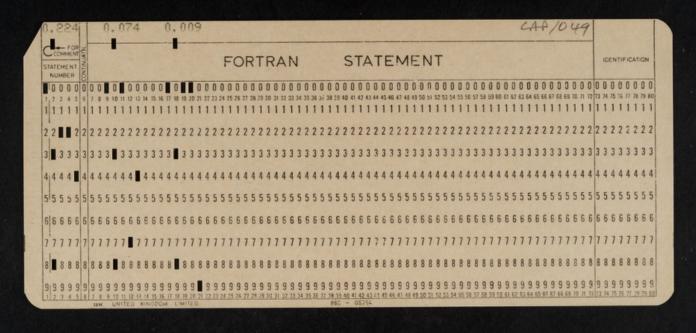
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0.220 0.084 0.009 0.000

A provisional exclusion map - the by-product of attempts at deletion mapping.

LOCATIONS EXCLUDED

		ABO	Miss	Rh	Lu	M	Fy	Jk	TL	Нр	Gm	Go	AcP	PGM	GPGD	Ak
A	1 r	T	1/6					11/1								
	4 p-		16			11.	1/1			1//	1/2		//	<i>7</i> //		
В	5 p-	1	1/2		7	1/2	11/2	11	1	1/2	1/2	1/2		1		1
	5 r	T						1//								
C	6 p-			1//												
	13 p-	11/	1/2	1/2							1//	1/1				
D	D q-		1/2													
-	13 r	1	1/	1/2			11			///	1	11	1/			
	14 r		111													
100	רפ 18	1/2	11.	1/				1				1/	1			
E	18 q-		1/2	1/2	1					1/2						
	18 r						1						3			
F	F -		1/								110					
	G p-		1/2		1/2		-							T		
G	G q-		5	1/2										-		
	Gr		***	1	1	-	1	3	-	1		100			1	

NOTE: A shaded area indicates that one patient (at least) is known to have the deletion and to be heterozygous at that locus.

Due to individual variation in the extent of deletions, it is possible that a locus could be included in a large deletion and excluded in a small one.

12/IX/69

Departments of Child Health and Genetics, University of Glasgow.

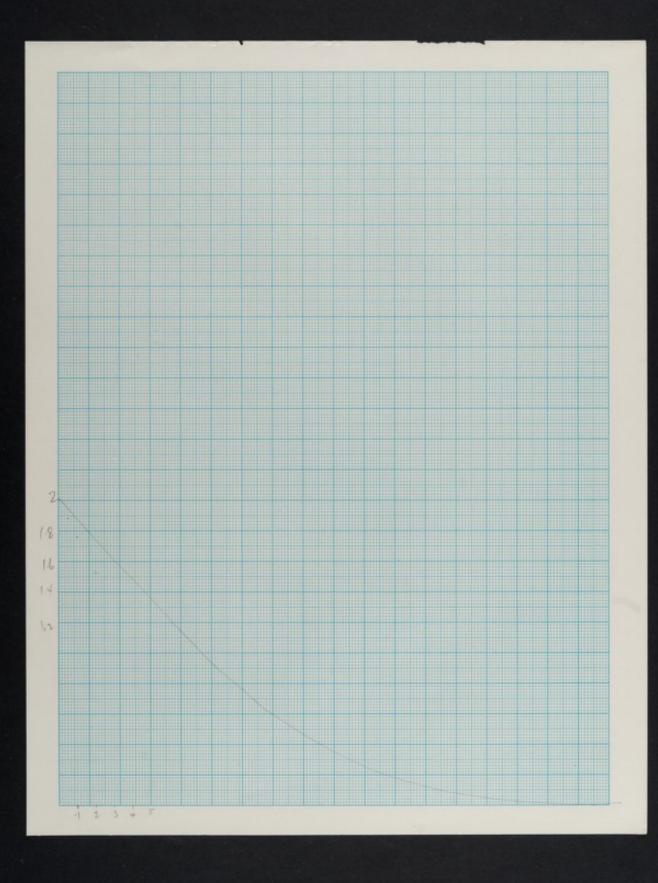
Fagurer Smire. (Hagie.)

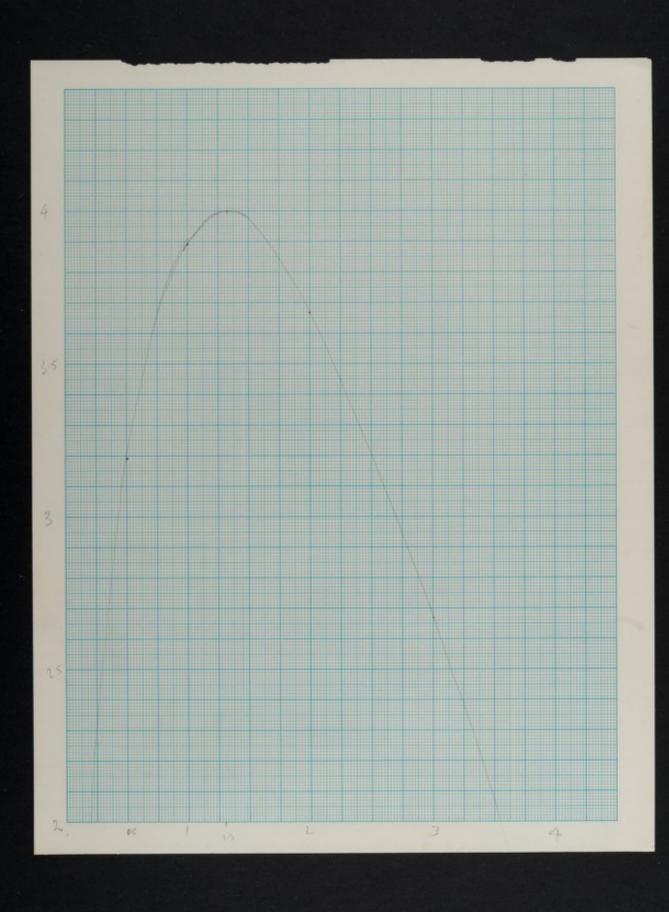
MAPIN

Map interval estimation program- Card input

(All fields are right adjusted unless otherwise stated.)

	Card or Group	<u>Col</u>	Description
	1	1-2	KC- Number of chromosomes. This number is usually 22 or 1 depending whether the interval is being estimated on the autosomes or a particular chromosome such as the X.
		3-10	CL- The total length of the chromosome or chromosomes referred to by KC.
		11-12	NL- Number of loci. (3 or 4)
		13-14	NW- Number of points on each likelihood curve. All likelihood curves for each interval must have as input the lods for the same points.
	2 10	fields of 8	W- Map values. (max 27) Additional cards are used when the number of map values exceeds \$/ 10.
		8	Map interval identification number. This will be a number 1 to 6 as defined by the interval diagram below. NEVER 3 FOR 3-LAUS MAP.
A	9	fields of 8 starting i	
	3b 10	fields of 8	This is a continuation of card 3a when there are more than 9 log likelihood values.
			(There may be 1 to 6 sets of number 3 cards. They need not be in any order and cards for a particular interval may be ommitted when there is no information.)
	4	8	This must be punched with a 9.
		K-	-4 3 map interval
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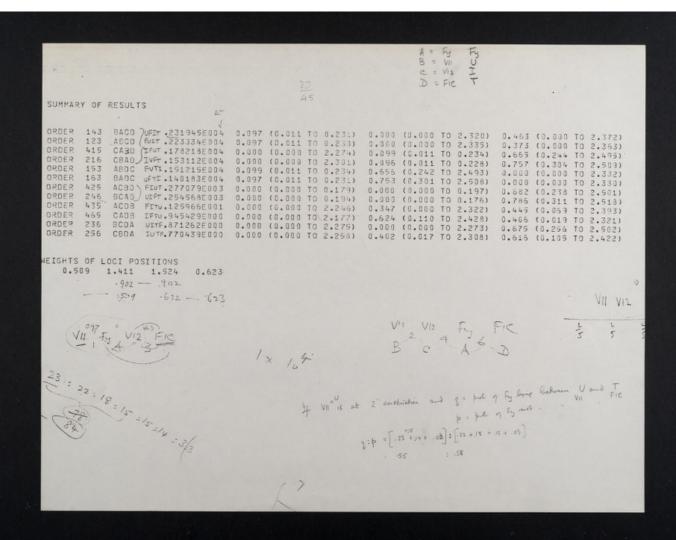
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		PRIORS FOR MAP INTERV	L. WRAW, ON UNKNOWN AUTOSOKE
Q	DN	32767	
L	DRC	33,333,9.12,8,53,7.16	, 6 · ±9, 6 · 1 ± , 5 · 87, 5 · 31, 4 · 92, 4 · 81, 4 · 71, , 3 · 2, 3 · 12, 2 · 72, 2 · 48, 2 · 27, 1 · 77, 1 · 64
		4.6,4.47,3.56,3.6,3.4	, 3.2, 3.12, 2.72, 2.48, 2.27, 11.77, 11.64
			AS PERCENT TOTAL LENGTH (33.333MARGANS)
LL	DRN	16	
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Prior distributions of map intervals, between 2 of n loci.

n=1 Assume n+1 events on a circle, 1 being the opening-up event.

p(w) & 1/L (i.e. distance from locus to end is uniformly distributed at density 1/L.)

n=2 Imagine an extra event on this circle.

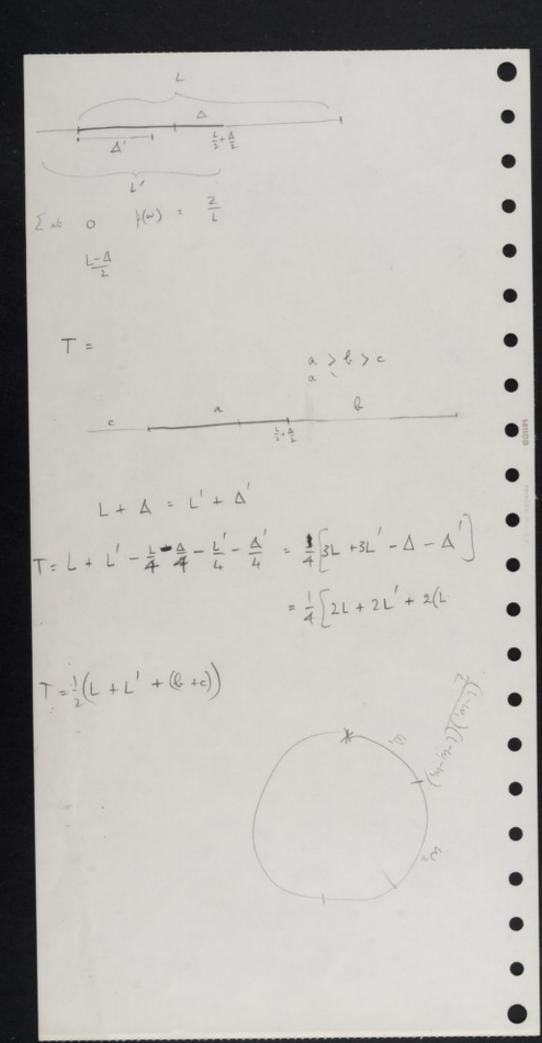
 $p(w) \propto (1/L)(\underline{L-w})$ where w is the distance from end and does <u>not</u> contain the third locus. However, owing to symmetry of 3 events on a circle, this end interval is distibuted exactly as the interval between <u>any</u> two neighbouring events out of 3.

p(w inner) $\alpha(L-w)/L^2$ i.e. interval between loci or interval to near end. p(w outer) α w/L² i.e. from locus to distant end.

n=3 As for n=2 but combined with probability of extra event falling outside the interval.

Prior prob of a particular sequence is 1/3. Given a specific sequence, $\mathbf{w}_1 + \mathbf{w}_2 = \mathbf{w}_3$

 $p(w_1 \text{ inner}) \alpha (L-w)^2/L^3$ $p(w_3 \text{ outer}) \alpha w(L-w)/L^3$



ae + as = te + ts = 2 ag-to-to-ag te-re-as-ts te = 2-ts te - as + = - ts as the -as -a + ts 100-S. @ From A-25-d to A-5-8 let A: Sum of all 4 arm - lengting S: Shortest of all 4 arm - lengting & : change in longth due to translocation Luits of Great poil are 1. On shortant arm $\frac{1}{2}$ On other chromosome am $\left(\frac{5}{2}-2s-5\right)$ to $\left(\frac{5}{2}-s-5\right)$ E (169+ ; 1p-)