

## Supporting Online File for:

### *A relative-motion method for parsing spatio-temporal behaviour of dyads using GPS relocation data*

Ludovica Luisa Vissat, Jason K. Blackburn and Wayne M. Getz

#### 1. Dyadic analysis

For the dyadic analysis, the procedure is similar to the individual analysis presented in the paper. The difference lies in the fact that we consider the simultaneous individual behaviour, and therefore we have a unique list to keep track of the dyadic behaviour types. This list, indicated by  $M_D$ , is composed of  $n$  5-dimensional vectors, initially populated with zeros. The procedure is the same as for the individual analysis up to the pair distance calculation. If this distance is below our maximum threshold for considering dyadic interactions, then the function  $f_{cd}$  is used to categorize the dyadic behaviour in terms of the angles  $\text{diffA}$  and  $\text{diffB}$ . The update function will then update the list  $M_D$ , according to the dyadic behaviour type and the corresponding distance interval.

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**Algorithm 1:** Methodology implementation

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**Input**  $\mathcal{T}_A, \mathcal{T}_B, \mathcal{I}$

$M_D = \text{list}()$

**for**  $i$  **in**  $\{1, \dots, n\}$  **do**

$M_D[i] = v_0(5)$

$I_{AB} = \mathcal{T}_A \cap \mathcal{T}_B$

**for**  $t$  **in**  $I_{AB}$  **do**

$\text{headA} = f(A(t), A(t+1)), \text{headB} = f(B(t), B(t+1))$

$\text{dirAB} = f(A(t), B(t)), \text{dirBA} = f(B(t), A(t))$

$\text{diffA} = |\text{headA} - \text{dirAB}|, \text{diffB} = |\text{headB} - \text{dirBA}|$

$d_{AB} = d((A(t), B(t)))$

**if**  $\exists i : d_{AB} \in I_i$  **then**

$m_D = f_{cd}(\text{diffA}, \text{diffB})$

$M_D[i] = u(m_D, M_D[i])$

**return**  $M_A, M_B$

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## 2. Extended analysis

For the extended analysis, we extract eight behaviour types, by considering also the heading difference and the relative speed. We set the speed proportion limits  $p_l$  and  $p_u$ , and a list  $M_F$  to keep track of the counts. Given two individuals A and B, the speed proportion limits  $p_l$  and  $p_u$  are defined such that if the speed proportion  $s_p$  is above  $p_u$ , then speed of A is considered *greater* than speed of B. If  $s_p$  lies between  $p_l$  and  $p_u$ , then the speed is considered *similar*, while if the proportion is below  $p_l$ , then the speed of B is considered *greater* than the speed of A.

After the calculation of the usual angles, we evaluate also the heading difference  $\text{diffH}$ , the pair distance  $d_{AB}$ , the individual speed  $s_A$  and  $s_B$  (as ratio between the distance  $\Delta l$  and time interval  $\Delta t$ ) and the proportion of the two individual speeds  $s_p$ . If the pair distance  $d_{AB}$  lies within a chosen distance interval  $I_i$ , then the function  $f_{cf}$  classify the pair behaviour type considering all the necessary inputs and the function  $u$  subsequently updates the vector count.

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### Algorithm 2: Methodology implementation

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**Input**  $\mathcal{T}_A, \mathcal{T}_B, \mathcal{I}, d_M, p_l, p_u$

$M_F = \text{list}()$

**for**  $i$  **in**  $\{1, \dots, n\}$  **do**

$M_F[i] = v_0(8)$

$I_{AB} = \mathcal{T}_A \cap \mathcal{T}_B$

**for**  $t$  **in**  $I_{AB}$  **do**

$\text{headA} = f(A(t), A(t+1)), \text{headB} = f(B(t), B(t+1))$

$\text{dirAB} = f(A(t), B(t)), \text{dirBA} = f(B(t), A(t))$

$\text{diffA} = |\text{headA} - \text{dirAB}|, \text{diffB} = |\text{headB} - \text{dirBA}|$

$\text{diffH} = |\text{headA} - \text{headB}|$

$d_{AB} = d(A(t), B(t))$

$s_A = \frac{d(A(t), A(t+1))}{\Delta t_A}, s_B = \frac{d(B(t), B(t+1))}{\Delta t_B}$

$s_p = \frac{s_A}{s_B}$

**if**  $\exists i : d_{AB} \in I_i$  **then**

$m_F = f_{cf}(\text{diffA}, \text{diffB}, \text{diffH}, s_p, p_l, p_u)$

$M_F[i] = u(m_F, M_F[i])$

**return**  $M_F$

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### 2.1. Extended analysis: dyadic movement modes

The following table combines the information related to the classified dyadic movement modes, relative speed and individual heading analysis. We provide a description of behaviours of interest, used in Section 7.4 of the main paper.

### Dyadic behaviour:

1. both individuals approach each other
2. both individuals retreat from each other
3. one individual approaches while the other individual retreats
4. one individual moves orthogonally, the other approaches
5. one individual moves orthogonally, the other retreats
6. both individuals move orthogonally

To each of these six dyadic modes, we assign an additional designator: a.) similar speed, b.) A faster than B, 3.) B faster than A. This yields a total of 18 dyadic movement modes: 1a, 1b, ..., 6c. Considering also the heading analysis allows us to extract various behaviours of interest, that we describe in the following table.

Modes	Dyadic behaviour	Speed analysis	Description
1a	Both individuals approach each other	Similar	With opposite individual headings, A and B approaching at a similar speed
1b	Both individuals approach each other	A faster than B	
1c	Both individuals approach each other	B faster than A	
2a	Both individuals retreat from each other	Similar	
2b	Both individuals retreat from each other	A faster than B	
2c	Both individuals retreat from each other	B faster than A	
3a	One individual (A) approaches while the other individual (B) retreats	Similar	With similar individual heading, following behaviour
3b	One individual (A) approaches while the other individual (B) retreats	A faster than B	With similar individual heading, A chasing B
3c	One individual approaches (A) while the other individual (B) retreats	B faster than A	With similar individual heading, B escaping from A

Modes	Behaviour	Speed	Description
4a	One individual (A) moves orthogonally, the other (B) approaches	Similar	
4b	One individual moves orthogonally, the other approaches	A faster than B	
4c	One individual moves orthogonally, the other approaches	B faster than A	
5a	One individual moves orthogonally, the other retreats	Similar	
5b	One individual moves orthogonally, the other retreats	A faster than B	
5c	One individual moves orthogonally, the other retreats	B faster than A	
6a	Both individuals move orthogonally	Similar	With similar individual heading, side by side movement
6b	Both individuals move orthogonally	A faster than B	
6c	Both individuals move orthogonally	B faster than A	

Note that we considered speed and heading difference in the analysis to extract meaningful behaviours (e.g. following, side by side). However, given all the possible combinations, some resulting behaviours might not be meaningful. For example, “both individuals approaching, similar speed, similar heading” is not a possible behaviour, since both individual cannot be moving towards each other and have similar absolute headings.

### 3. Simulated data

In this section, we describe the relative-motion, biased random-walk (RM-BRW) models implemented in Numerus Model Builder (NMB) and used to generate simulated data. We provide the description of the movement model for individual A of pair (A,B), since the behaviour of individual B is the same as the one of A, just with a different direction (B approaching/retreating from A instead of A approaching/retreating from B).

Given the initial position  $(x_0, y_0)$  of individual A, the location coordinates are updated as follows:

$$\begin{aligned}
x_{t+1} &= x_t + s_t \cos \theta_t \\
y_{t+1} &= y_t + s_t \sin \theta_t
\end{aligned}$$

where  $s_t$  is the step length and  $\theta_t$  is the absolute heading. The step length is drawn from the uniform distribution:

$$s_t \sim \text{UNIFORM}(s_{\min}, s_{\max})$$

while the absolute heading is drawn from different distributions, which are described later.

### 3.1. Distance-dependent behaviour (attraction and repulsion circumferences)

In the first model, these distributions are distance-dependent with noise introduced using the coefficient  $\rho \in [0, 1]$  and attracting and repulsing circles of radii  $d_R$  and  $d_I$  (Fig. 1):

$$\theta_{t+1} \sim \begin{cases} \text{UNIFORM}(\theta_{A \rightarrow B} - (1 - \rho)\frac{\pi}{2}, \theta_{A \rightarrow B} + (1 - \rho)\frac{\pi}{2}) & \text{if case 1} \\ \text{UNIFORM}(-\theta_{A \rightarrow B} - (1 - \rho)\frac{\pi}{2}, -\theta_{A \rightarrow B} + (1 - \rho)\frac{\pi}{2}) & \text{if case 2} \\ \text{UNIFORM}(-\pi, \pi) & \text{otherwise} \end{cases}$$

where  $\theta_{A \rightarrow B}$  is the heading from  $A(t)$  to  $B(t)$ ,  $\rho \in [0, 1]$  and:

- case 1:  $d_R < d_{AB} < d_I$  and  $\text{UNIFORM}(0,1) < p_{\text{eff}}$
- case 2:  $d_{AB} < d_R$  and  $\text{UNIFORM}(0,1) < p_{\text{eff}}$

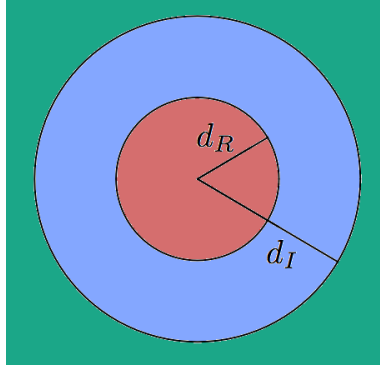


Figure 1: Area of repulsion (red), attraction (blue) and indifference (green), depending on  $d_R$  and  $d_I$ , around one individual.

The first case represents approach: the individuals are at a distance between the repulsion distance  $d_R$  and the indifference distance  $d_I$ , while the second case represents repulsion. These behaviours happen with probability  $p_{\text{eff}}$ , otherwise the movement is random.

### 3.2. Time-dependent behaviour

In the second model, the distributions used to draw  $\theta_{t+1}$  are a function of time. Given the period  $\omega$  and the functions  $f_1$  and  $f_2$ :

$$f_1(t) = \sin\left(\frac{2\pi t}{\omega}\right)$$

$$f_2(t) = \sin\left(\frac{2\pi t}{\frac{\omega}{2}}\right)$$

The value of the absolute heading is drawn as follow:

$$\theta_{t+1} \sim \begin{cases} \text{UNIFORM}(\theta_{A \rightarrow B} - (1 - \rho)\frac{\pi}{2}, \theta_{A \rightarrow B} + (1 - \rho)\frac{\pi}{2}) & \text{if case 1} \\ \text{UNIFORM}(-\theta_{A \rightarrow B} - (1 - \rho)\frac{\pi}{2}, -\theta_{A \rightarrow B} + (1 - \rho)\frac{\pi}{2}) & \text{if case 2} \\ \text{UNIFORM}(-\pi, \pi) & \text{otherwise} \end{cases}$$

where:

- case 1:  $f_1(t) > 0$  and  $f_2(t) > 0$
- case 2:  $f_1(t) > 0$  and  $f_2(t) < 0$

The first case represents A approaching B, the second case A retreating from B while the third case is a random walk, without a preferred direction.

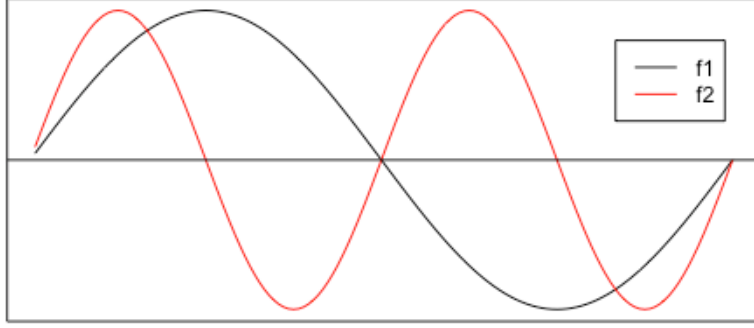


Figure 2: One period of  $f_1$  (black) and 2 periods of  $f_2$  (red).

Parameters used in the simulations:

Name	Value
$s_{\min}$	5
$s_{\max}$	6
$\omega$	144
$\rho$	0.5
$d_I$	60
$d_R$	30
$p_{\text{eff}}$	0.5

Note that the choice of parameters was arbitrary. Other values can be selected, depending on what aspects of the model are being evaluated or tested.

## 4. Results

In the results reported here, we used the Euclidean distance to calculate the dyadic distance in units and we scaled the coordinates to be able to use the function `bearing` to calculate the various angles.

### 4.1. Individual behaviour: individual B

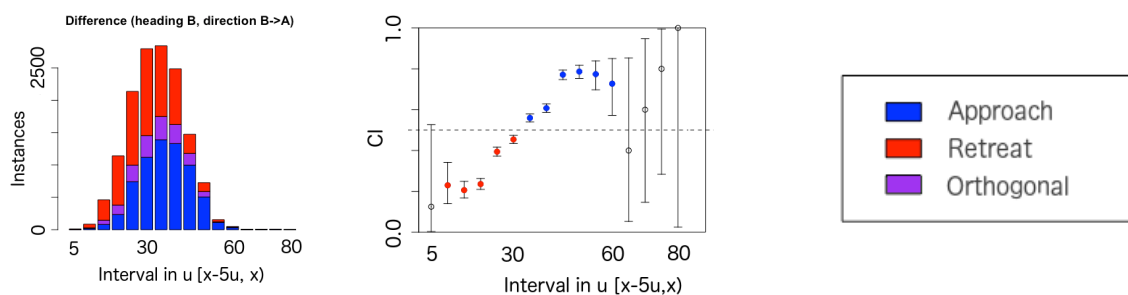


Figure 3: Barplot for individual B (left). Estimated confidence intervals (CI) for individual B, colored if statistically significant result (center) according to the legend (right).

#### 4.2. Dyadic behaviour: pair (A,B)

We indicate behaviours of type 3(A,B) and 3(B,A) using the numbers 3 and 4 respectively.

Pair	Distance interval (miles)	Total	Count	Type	Lower CI	Upper CI	Retreat	Approach
A and B	[0,5)	7	0	1	0	0.4096		
A and B		7	3	2	0.099	0.8159		
A and B		7	3	3	0.099	0.8159		
A and B		7	1	4	0.0036	0.5787		
A and B	[5,10)	60	5	1	0.0276	0.1839	✓	
A and B		60	30	2	0.3681	0.6319		✓
A and B		60	16	3	0.1607	0.3966		
A and B		60	9	4	0.071	0.2657		
A and B	[10,15)	347	17	1	0.0288	0.0773	✓	
A and B		347	224	2	0.5927	0.6959		✓
A and B		347	54	3	0.1191	0.1981	✓	
A and B		347	52	4	0.114	0.1918	✓	
A and B	[15,20)	880	53	1	0.0454	0.078	✓	
A and B		880	530	2	0.5691	0.6348		✓
A and B		880	142	3	0.1377	0.1874	✓	
A and B		880	155	4	0.1515	0.2029	✓	
A and B	[20,25)	1628	385	1	0.216	0.2579		
A and B		1628	606	2	0.4033	0.452		✓
A and B		1628	278	3	0.1528	0.1899	✓	
A and B		1628	269	4	0.1475	0.1842	✓	
A and B	[25,30)	2148	612	1	0.2659	0.3045		✓
A and B		2148	801	2	0.3524	0.3938		✓
A and B		2148	377	3	0.1596	0.1923	✓	
A and B		2148	358	4	0.1511	0.1831	✓	
A and B	[30,35)	2143	861	1	0.3809	0.4229		✓
A and B		2143	608	2	0.2647	0.3033		✓
A and B		2143	334	3	0.1407	0.1719	✓	
A and B		2143	340	4	0.1434	0.1748	✓	
A and B	[35,40)	1924	833	1	0.4107	0.4554		✓
A and B		1924	422	2	0.201	0.2385	✓	
A and B		1924	329	3	0.1544	0.1886	✓	
A and B		1924	340	4	0.1599	0.1945	✓	
A and B	[40,45)	1125	683	1	0.5779	0.6358		✓
A and B		1125	79	2	0.056	0.0868	✓	
A and B		1125	175	3	0.1349	0.1781	✓	
A and B		1125	188	4	0.1458	0.1902	✓	
A and B	[45,50)	558	337	1	0.562	0.6448		✓
A and B		558	20	2	0.022	0.0548	✓	
A and B		558	92	3	0.135	0.1983	✓	
A and B		558	109	4	0.1632	0.2307	✓	
A and B	[50,55)	132	85	1	0.5559	0.7253		✓
A and B		132	4	2	0.0083	0.0758	✓	
A and B		132	26	3	0.1329	0.2751		
A and B		132	17	4	0.0768	0.1982	✓	
A and B	[55,60)	35	22	1	0.4492	0.7853		✓
A and B		35	1	2	7e-04	0.1492	✓	
A and B		35	8	3	0.1042	0.4014		
A and B		35	4	4	0.032	0.2674		
A and B	[60,65)	5	1	1	0.0051	0.7164		
A and B		5	1	2	0.0051	0.7164		
A and B		5	2	3	0.0527	0.8534		
A and B		5	1	4	0.0051	0.7164		
A and B	[65,70)	5	1	1	0.0051	0.7164		
A and B		5	0	2	0	0.5218		
A and B		5	2	3	0.0527	0.8534		
A and B		5	2	4	0.0527	0.8534		
A and B	[70,75)	5	0	1	0	0.5218		
A and B		5	0	2	0	0.5218		
A and B		5	1	3	0.0051	0.7164		
A and B		5	4	4	0.2836	0.9949		✓
A and B	[75,80)	1	1	1	0.025	1		
A and B		1	0	2	0	0.975		
A and B		1	0	3	0	0.975		
A and B		1	0	4	0	0.975		



#### 4.3. Results for time-dependent RM-BRW model

In this section we show the results of the individual analysis obtained by subdividing our 10-day simulation data depending on the time of the day (first quarter, second quarter and second half of the day), considering dyadic distance below 100 units. In Figure 4 we show the results related to the first quarter of the day (first row), the results for the analysis of data from the second quarter of the day (second row) and the results corresponding to the second half of the day (third row). As expected, we observe that in the first quarter of the day the individuals mostly show approach behaviour (in blue) while in the second quarter of the day they show mostly retreat behaviour (in red). In the second half of the day, when the individuals move independently, we observe a balanced mixture of the different behaviour types, without a prevalent one. In Figure 5 we depict the results of the dyadic analysis, divided depending on the time of the day. Also in this case, the analysis captured the different dyadic behaviour (both approaching, both retreating) for the first 2 quarters of the day, while the second half presents the various dyadic behaviour types.

Note that we binned the results for distance below 100. However, in this case, the dyadic distance was not bounded above as before, so there are more data for distance above 100 (maximum 4002 units), which we show in Figures 6 and 7. These results show the same time-dependent patterns as in the previous analysis, which are captured by our methodology, using subdivided data.

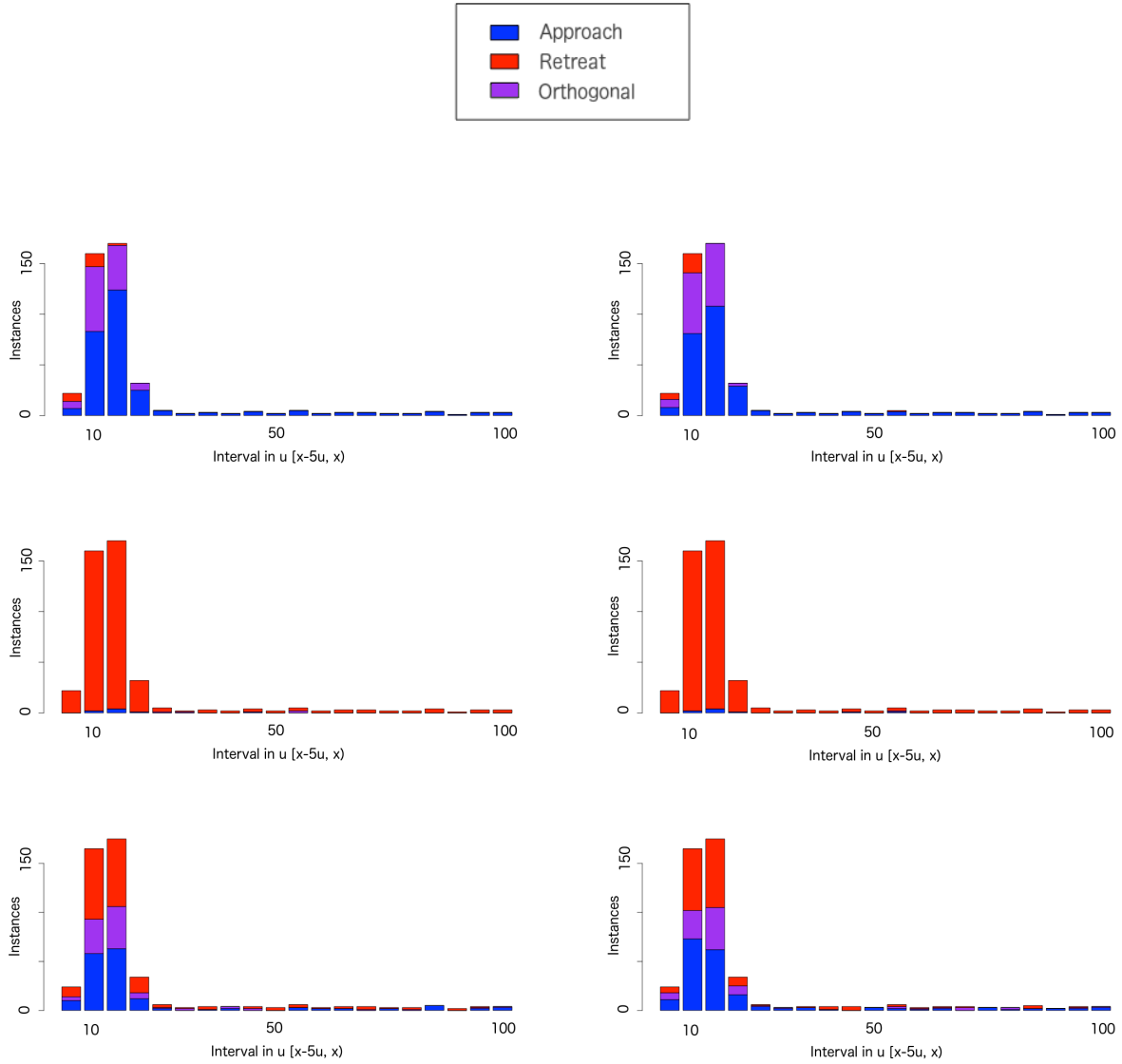


Figure 4: Results of individual analysis for individual A (left) and B (center), for the time-dependent RM-BRW model, for different times of the day. First row: first quarter of the day, second row: second quarter of the day, third row: second half of the day. Legend on the top.

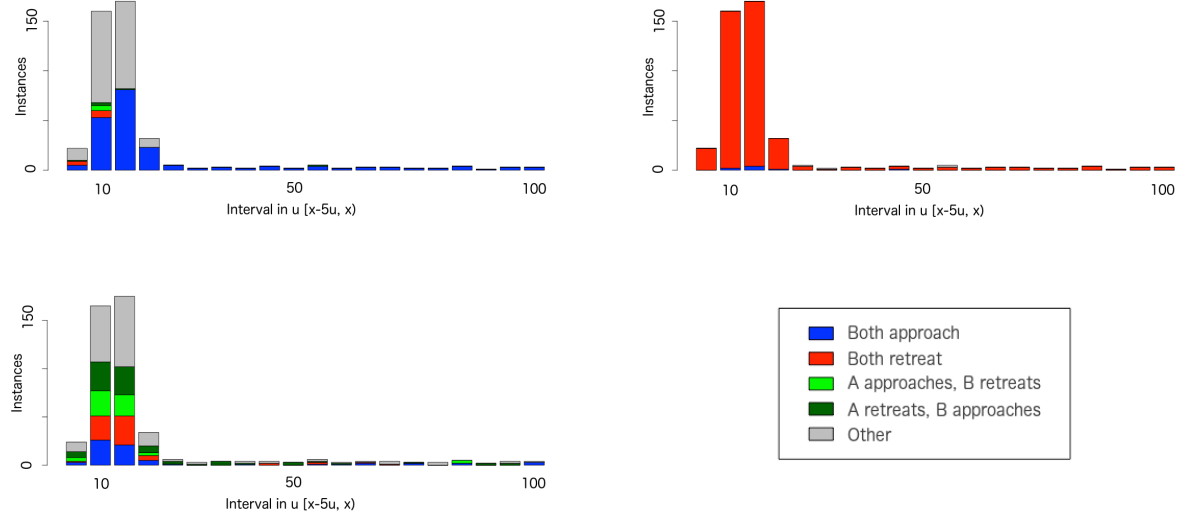


Figure 5: Results of dyadic analysis for individual A and B, for the time-dependent RM-BRW model, for different times of the day. From the top left: first quarter of the day, second quarter of the day, second half of the day, legend.

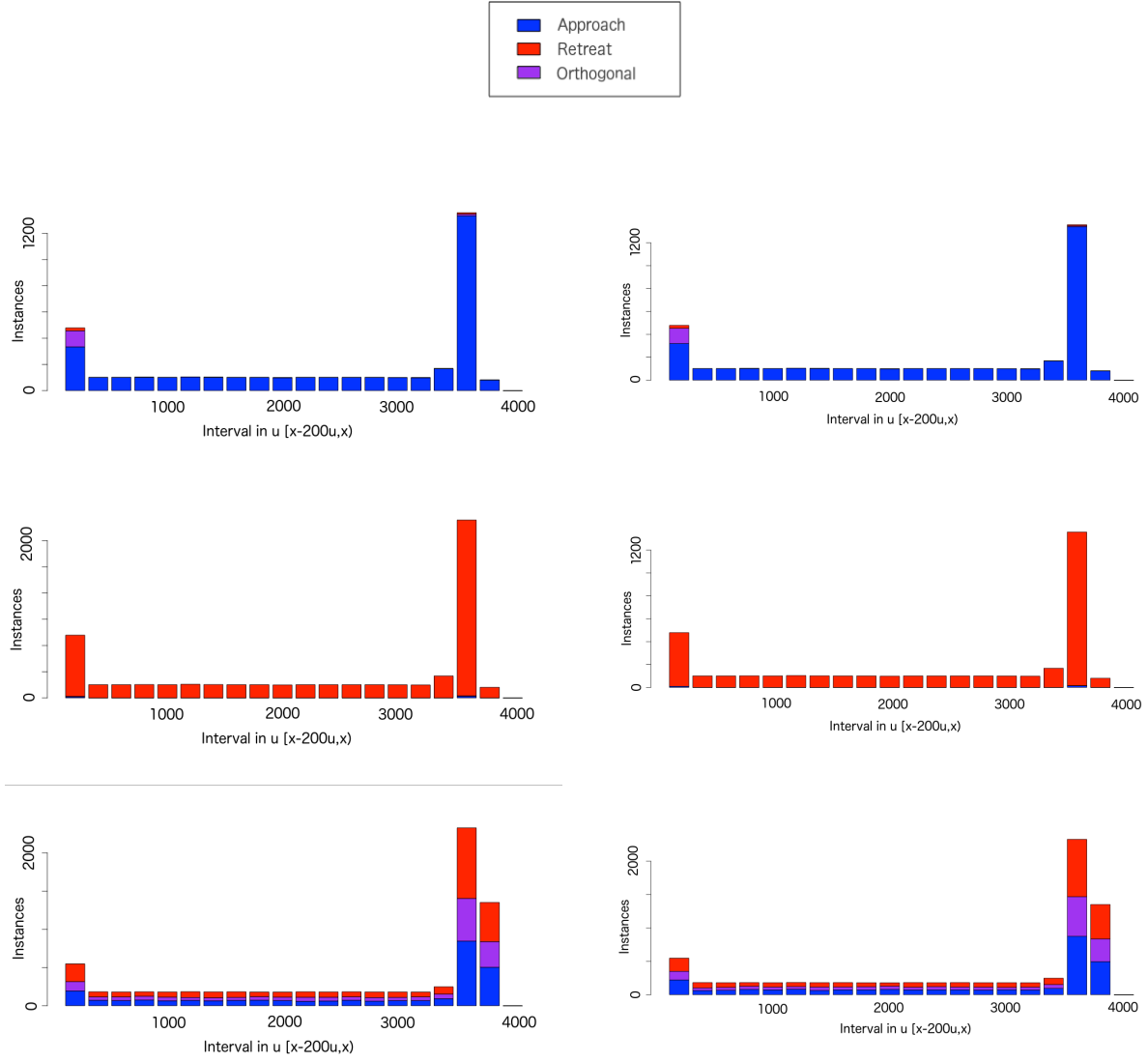


Figure 6: Results of individual analysis for individual A (left) and B (center), for the time-dependent RM-BRW model, for different times of the day. First row: first quarter of the day, second row: second quarter of the day, third row: second half of the day. Legend on the top.

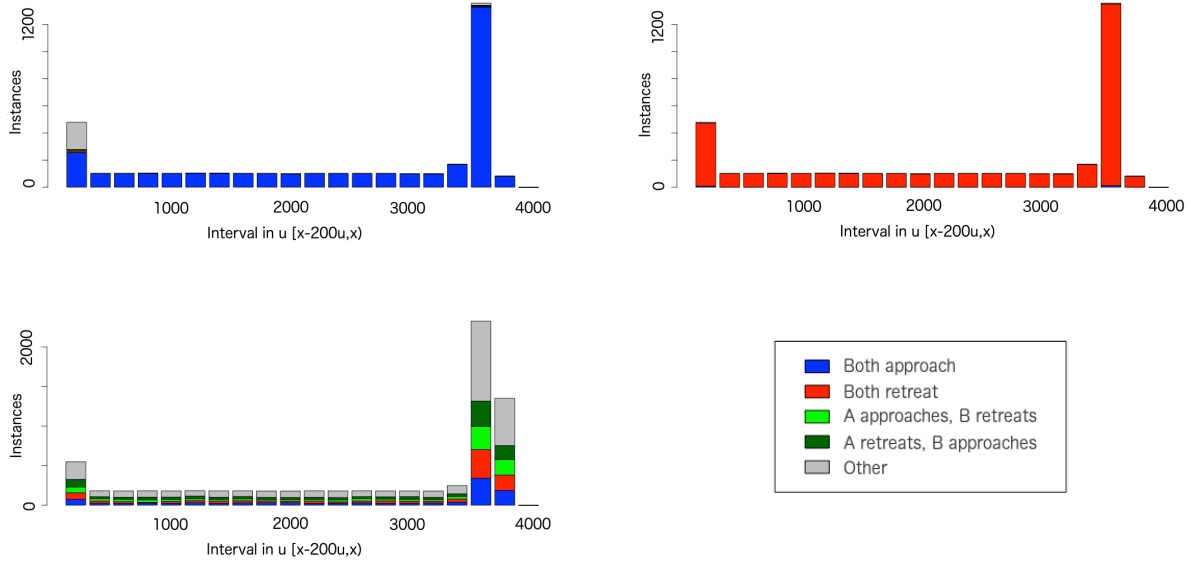


Figure 7: Results of dyadic analysis for individual A and B, for the time-dependent RM-BRW model, for different times of the day. From the top left: first quarter of the day, second quarter of the day, second half of the day, legend.

## 5. Empirical data

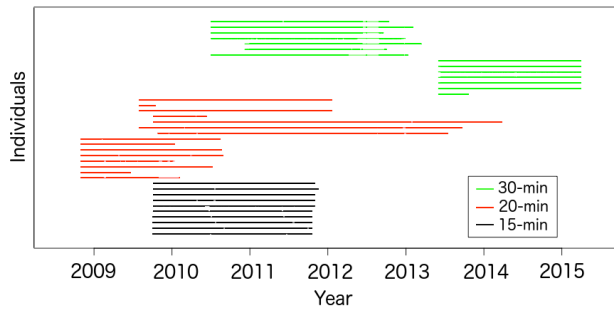


Figure 8: Time line of data collection for each individual and for each different time interval.

### 5.1. Dyadic behaviour: pair (female,male)

As before, we indicate behaviours of type 3(A,B) and 3(B,A) with numbers 3 and 4. Statistically significant results are marked using the symbol  $\checkmark$ . Letter A represents the female while letter B represents the male.

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
A and B	[0,50)	485	49	1	0.0757	0.1314	✓
A and B		485	26	2	0.0353	0.0776	✓
A and B		485	185	3	0.338	0.4263	✓
A and B		485	225	4	0.4188	0.5094	✓
A and B	[50,100)	522	27	1	0.0344	0.0744	✓
A and B		522	41	2	0.057	0.105	✓
A and B		522	207	3	0.3543	0.44	✓
A and B		522	247	4	0.4296	0.517	✓
A and B	[100,200)	857	80	1	0.0747	0.1148	✓
A and B		857	78	2	0.0726	0.1123	✓
A and B		857	328	3	0.3501	0.4162	✓
A and B		857	371	4	0.3994	0.4668	✓
A and B	[200,500)	1700	230	1	0.1194	0.1525	✓
A and B		1700	208	2	0.1071	0.1389	✓
A and B		1700	527	3	0.2881	0.3326	✓
A and B		1700	735	4	0.4086	0.4563	✓
A and B	[500,1000)	1369	222	1	0.143	0.1828	✓
A and B		1369	214	2	0.1375	0.1767	✓
A and B		1369	276	3	0.1806	0.2239	✓
A and B		1369	657	4	0.4531	0.5068	✓
A and B	[1000,2000)	1064	211	1	0.1747	0.2236	✓
A and B		1064	187	2	0.1533	0.2	✓
A and B		1064	176	3	0.1436	0.1891	✓
A and B		1064	490	4	0.4303	0.491	✓
A and B	[2000,3000)	742	143	1	0.1649	0.223	✓
A and B		742	170	2	0.1993	0.2611	
A and B		742	153	3	0.1776	0.2371	✓
A and B		742	276	4	0.3371	0.4079	✓
A and B	[3000,5000)	997	216	1	0.1914	0.2435	✓
A and B		997	232	2	0.2068	0.2602	
A and B		997	280	3	0.2531	0.3099	✓
A and B		997	269	4	0.2425	0.2985	
A and B	[5000,10000)	2144	559	1	0.2422	0.2799	
A and B		2144	512	2	0.2209	0.2574	
A and B		2144	517	3	0.2232	0.2598	
A and B		2144	556	4	0.2409	0.2784	

## 5.2. Hot-wet season

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
A and B	[0,50)	82	6	1	0.0273	0.1525	✓
A and B			7	2	0.035	0.168	✓
A and B			28	3	0.2403	0.4545	
A and B			41	4	0.3875	0.6125	✓
A and B	[50,100)	89	9	1	0.0473	0.1833	✓
A and B			8	2	0.0396	0.1695	✓
A and B			30	3	0.2403	0.4451	
A and B			42	4	0.3651	0.5806	✓
A and B	[100,200)	186	24	1	0.0845	0.1859	✓
A and B			25	2	0.0889	0.192	✓
A and B			54	3	0.2262	0.3612	
A and B			83	4	0.3735	0.5207	✓
A and B	[200,500)	469	67	1	0.1125	0.1778	✓
A and B			53	2	0.0858	0.1452	✓
A and B			156	3	0.2901	0.3773	✓
A and B			193	4	0.3666	0.4576	✓
A and B	[500,1000)	632	118	1	0.1571	0.2193	✓
A and B			102	2	0.1336	0.1924	✓
A and B			131	3	0.1763	0.241	✓
A and B			281	4	0.4054	0.4843	✓
A and B	[1000,2000)	576	118	1	0.1726	0.2402	✓
A and B			106	2	0.1532	0.2181	✓
A and B			85	3	0.1196	0.1792	✓
A and B			267	4	0.4222	0.5052	✓
A and B	[2000,3000)	377	84	1	0.1818	0.2682	
A and B			82	2	0.1769	0.2626	
A and B			59	3	0.1213	0.1972	✓
A and B			152	4	0.3533	0.4546	✓
A and B	[3000,5000)	529	117	1	0.1865	0.259	
A and B			111	2	0.1759	0.2471	✓
A and B			136	3	0.2203	0.2966	
A and B			165	4	0.2726	0.3533	✓
A and B	[5000,10000)	769	186	1	0.212	0.2737	
A and B			200	2	0.2294	0.2926	
A and B			181	3	0.2058	0.267	
A and B			202	4	0.2319	0.2953	

### 5.3. Cold-dry season

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
A and B	[0,50)	6	0	1	0	0.4593	
A and B			0	2	0	0.4593	
A and B			4	3	0.2228	0.9567	
A and B			2	4	0.0433	0.7772	
A and B	[50,100)	6	0	1	0	0.4593	
A and B			0	2	0	0.4593	
A and B			3	3	0.1181	0.8819	
A and B			3	4	0.1181	0.8819	
A and B	[100,200)	14	1	1	0.0018	0.3387	
A and B			2	2	0.0178	0.4281	
A and B			3	3	0.0466	0.508	
A and B			8	4	0.2886	0.8234	✓
A and B	[200,500)	36	5	1	0.0467	0.295	
A and B			2	2	0.0068	0.1866	✓
A and B			17	3	0.3041	0.6451	✓
A and B			12	4	0.1856	0.5097	
A and B	[500,1000)	30	8	1	0.1228	0.4589	
A and B			8	2	0.1228	0.4589	
A and B			4	3	0.0376	0.3072	
A and B			10	4	0.1729	0.5281	
A and B	[1000,2000)	62	16	1	0.1553	0.385	
A and B			17	2	0.1685	0.4023	
A and B			21	3	0.2233	0.4701	
A and B			8	4	0.0574	0.2385	✓
A and B	[2000,3000)	80	13	1	0.0895	0.2618	
A and B			21	2	0.1704	0.3729	
A and B			32	3	0.292	0.5156	✓
A and B			14	4	0.0991	0.2762	
A and B	[3000,5000)	197	38	1	0.1403	0.255	
A and B			66	2	0.2695	0.4056	✓
A and B			62	3	0.2506	0.3845	✓
A and B			31	4	0.1095	0.2159	✓
A and B	[5000,10000)	719	193	1	0.2363	0.3024	
A and B			176	2	0.2138	0.2779	
A and B			196	3	0.2403	0.3067	
A and B			154	4	0.1847	0.246	✓



#### 5.4. Hot-dry season

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
A and B	[0,50)	397	43	1	0.0795	0.1431	✓
A and B			19	2	0.0291	0.0737	✓
A and B			153	3	0.3373	0.4352	✓
A and B			182	4	0.4086	0.5089	✓
A and B	[50,100)	427	18	1	0.0252	0.0658	✓
A and B			33	2	0.0538	0.1068	✓
A and B			174	3	0.3605	0.4558	✓
A and B			202	4	0.4249	0.5216	✓
A and B	[100,200)	657	55	1	0.0637	0.1076	✓
A and B			51	2	0.0583	0.1008	✓
A and B			271	3	0.3745	0.4512	✓
A and B			280	4	0.388	0.465	✓
A and B	[200,500)	1195	158	1	0.1135	0.1527	✓
A and B			153	2	0.1096	0.1483	✓
A and B			354	3	0.2705	0.323	✓
A and B			530	4	0.4151	0.4722	✓
A and B	[500,1000)	707	96	1	0.1114	0.1633	✓
A and B			104	2	0.1218	0.1754	✓
A and B			141	3	0.1706	0.2308	✓
A and B			366	4	0.4801	0.5551	✓
A and B	[1000,2000)	426	77	1	0.1454	0.2206	✓
A and B			64	2	0.1177	0.1878	✓
A and B			70	3	0.1304	0.203	✓
A and B			215	4	0.4562	0.5532	✓
A and B	[2000,3000)	285	46	1	0.1207	0.2094	✓
A and B			67	2	0.1871	0.2887	
A and B			62	3	0.171	0.27	
A and B			110	4	0.3291	0.4452	✓
A and B	[3000,5000)	271	61	1	0.1768	0.2795	
A and B			55	2	0.1567	0.2558	
A and B			82	3	0.2485	0.3611	
A and B			73	4	0.2175	0.3264	
A and B	[5000,10000)	656	180	1	0.2406	0.3103	
A and B			136	2	0.1769	0.2404	✓
A and B			140	3	0.1826	0.2468	✓
A and B			200	4	0.2698	0.3417	✓

In Fig. 9 we show the pair distance, coloring each point in time with the color corresponding to the dyadic behaviour type. Also in this case, we observe a decrease of the pair distance with approach behaviour (indicated in blue), as expected, as well as an increase in the pair distance with retreat behaviour (shown in

red).

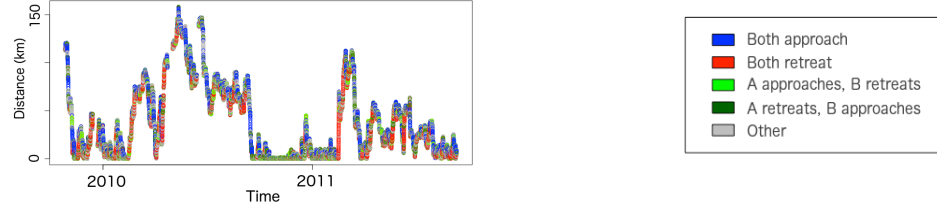


Figure 9: Distance between the pair, colored according to the dyadic behaviour type (legend on the right).

## 6. All pairs of interest

Also in this case, we indicate behaviours of type 3(A,B) and 3(B,A) with numbers 3 and 4.

Table 1: Results - 15-min pairs

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	29	18	88	0	0	59	0	65
[50m,100m)	53	0	65	0	0	53	0	41
[100m,200m)	59	0	71	0	0	53	0	41
[200m,500m)	59	0	71	0	0	65	0	59
[500m,1km)	53	0	12	0	0	47	6	35
[1km,2km)	53	0	18	0	12	53	18	24
[2km,3km)	41	0	12	12	6	41	18	29
[3km,5km)	0	18	12	12	18	24	24	24
[5km,10km)	6	24	35	18	29	29	35	18

Table 2: Results - 20-min pairs

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	52	0	83	0	0	61	4	70
[50m,100m)	65	0	65	0	0	74	4	48
[100m,200m)	87	0	78	0	0	83	4	61
[200m,500m)	87	0	78	0	0	87	4	61
[500m,1km)	61	0	39	0	9	39	13	57
[1km,2km)	61	0	43	0	13	52	13	30
[2km,3km)	30	0	17	0	17	26	13	35
[3km,5km)	22	9	13	0	26	17	9	30
[5km,10km)	17	13	4	26	17	17	30	13

Table 3: Results - 30-min pairs

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	15	0	23	0	0	23	0	15
[50m,100m)	23	0	38	0	0	38	0	23
[100m,200m)	46	0	46	0	0	46	0	46
[200m,500m)	85	0	69	0	0	77	0	69
[500m,1km)	77	0	54	0	0	77	8	54
[1km,2km)	46	0	77	0	15	54	0	54
[2km,3km)	15	0	23	0	0	15	15	31
[3km,5km)	0	23	15	0	23	0	0	23
[5km,10km)	0	38	54	0	15	31	15	23

Table 4: Results - 20-min pairs (male-male)

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	55	0	100	0	0	73	9	73
[50m,100m)	64	0	73	0	0	73	9	45
[100m,200m)	82	0	91	0	0	82	9	64
[200m,500m)	82	0	82	0	0	91	9	45
[500m,1km)	45	0	18	0	9	55	18	36
[1km,2km)	45	0	27	0	0	64	27	9
[2km,3km)	9	0	0	0	9	18	18	9
[3km,5km)	18	18	0	0	27	9	9	18
[5km,10km)	18	18	9	18	0	36	45	9

Table 5: Results - 20-min pairs (male-female)

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	80	0	100	0	0	80	0	100
[50m,100m)	100	0	100	0	0	100	0	80
[100m,200m)	100	0	100	0	0	100	0	80
[200m,500m)	80	0	100	0	0	100	0	60
[500m,1km)	80	0	80	0	0	100	40	0
[1km,2km)	80	0	80	0	0	100	60	0
[2km,3km)	40	0	40	0	0	100	60	0
[3km,5km)	40	0	0	0	0	40	60	40
[5km,10km)	0	0	0	20	20	40	20	0

Table 6: Results - 20-min pairs (female-female)

Distance interval	Type 1 (below)	Type 1 (above)	Type 2 (below)	Type 2 (above)	Type 3 (below)	Type 3 (above)	Type 4 (below)	Type 4 (above)
[0m,50m)	29	0	43	0	0	29	0	43
[50m,100m)	43	0	29	0	0	57	0	29
[100m,200m)	86	0	43	0	0	71	0	43
[200m,500m)	100	0	57	0	0	86	0	71
[500m,1km)	71	0	43	0	0	29	0	71
[1km,2km)	71	0	43	0	0	57	0	29
[2km,3km)	57	0	29	0	14	43	0	43
[3km,5km)	14	0	43	0	14	14	0	43
[5km,10km)	29	14	0	43	29	0	29	0

## 6.1. 15-min pairs

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 2	[0,30]	77	19	1	0.1256	0.2592	
1 and 2		77	7	2	0.0373	0.1754	✓
1 and 2		77	20	3	0.1664	0.3723	
1 and 2	[50,100]	77	31	4	0.2923	0.5296	✓
1 and 2		25	3	1	0.0255	0.3122	
1 and 2		25	2	2	0.0098	0.2603	
1 and 2	[100,200]	25	9	3	0.1797	0.5748	
1 and 2		25	11	4	0.244	0.6507	
1 and 2		60	12	1	0.1078	0.3233	
1 and 2	[200,500]	60	11	2	0.0952	0.3044	
1 and 2		60	21	3	0.2313	0.484	
1 and 2		69	16	4	0.1607	0.3969	
1 and 2	[500,1000]	87	13	1	0.092	0.242	✓
1 and 2		87	13	2	0.082	0.242	✓
1 and 2		87	47	3	0.43	0.6477	✓
1 and 2	[1000,2000]	87	14	4	0.0909	0.2552	
1 and 2		125	24	1	0.1271	0.2721	
1 and 2		125	33	2	0.1892	0.3503	
1 and 2	[2000,3000]	125	23	3	0.1204	0.2632	
1 and 2		125	45	4	0.2763	0.4507	✓
1 and 2		251	50	1	0.1516	0.254	
1 and 2	[3000,5000]	251	74	2	0.2391	0.3554	
1 and 2		251	55	3	0.1995	0.2735	
1 and 2		251	72	4	0.2317	0.3471	
1 and 2	[5000,10000]	410	77	1	0.1512	0.229	✓
1 and 2		410	98	2	0.1985	0.2823	
1 and 2		410	107	3	0.2191	0.3063	
1 and 2	[10000,20000]	410	128	4	0.2676	0.3595	✓
1 and 2		1095	246	1	0.2002	0.2506	
1 and 2		1095	249	2	0.2629	0.2534	
1 and 2	[20000,30000]	1095	266	3	0.2178	0.2695	
1 and 2		1095	334	4	0.2779	0.3332	✓
1 and 2		3838	965	1	0.2378	0.2655	
1 and 2	[30000,50000]	3838	970	2	0.239	0.2668	
1 and 2		3838	939	3	0.2311	0.2586	
1 and 2		3838	964	4	0.2375	0.2652	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 3	[0,30]	393	192	1	0.2109	0.3059	
1 and 3		393	28	2	0.0479	0.1013	✓
1 and 3		393	136	3	0.2747	0.3092	✓
1 and 3	[50,100]	393	137	4	0.3015	0.398	✓
1 and 3		132	19	1	0.0889	0.2156	✓
1 and 3		132	10	2	0.0309	0.1349	✓
1 and 3	[100,200]	132	45	3	0.2007	0.4284	✓
1 and 3		132	58	4	0.3532	0.5284	✓
1 and 3		183	34	1	0.1322	0.2498	✓
1 and 3	[200,500]	183	33	2	0.1275	0.2438	✓
1 and 3		183	60	3	0.2604	0.401	✓
1 and 3		183	56	4	0.2102	0.2793	✓
1 and 3	[500,1000]	343	56	1	0.1257	0.2067	✓
1 and 3		343	60	2	0.1362	0.2194	✓
1 and 3		343	145	3	0.3099	0.477	✓
1 and 3	[1000,2000]	343	82	4	0.1949	0.2878	
1 and 3		576	99	1	0.1419	0.2052	✓
1 and 3		576	127	2	0.1873	0.2566	
1 and 3	[2000,3000]	576	203	3	0.3134	0.393	✓
1 and 3		576	147	4	0.2201	0.2929	✓
1 and 3		1255	256	1	0.182	0.2274	✓
1 and 3	[3000,5000]	1255	273	2	0.195	0.2414	✓
1 and 3		1255	365	3	0.2658	0.3198	✓
1 and 3		1255	361	4	0.2627	0.3136	✓
1 and 3	[5000,10000]	1579	375	1	0.2167	0.2593	✓
1 and 3		1579	365	2	0.2106	0.2538	
1 and 3		1579	430	3	0.2505	0.295	✓
1 and 3	[10000,20000]	1579	409	4	0.2376	0.2814	
1 and 3		2833	719	1	0.2379	0.2702	
1 and 3		2833	701	2	0.2316	0.2638	
1 and 3	[20000,30000]	2833	769	3	0.2551	0.2882	✓
1 and 3		2833	644	4	0.212	0.2432	✓
1 and 3		7976	1931	1	0.2327	0.2517	
1 and 3	[30000,50000]	7976	1977	2	0.2384	0.2575	
1 and 3		7976	2106	3	0.2544	0.2739	✓
1 and 3		7976	1962	4	0.2366	0.2556	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 4	[0,30]	164	58	1	0.2807	0.422	✓
1 and 4		164	11	2	0.034	0.1169	✓
1 and 4		164	44	3	0.2022	0.343	✓
1 and 4	[50,100]	164	51	4	0.2411	0.3878	
1 and 4		61	11	1	0.0096	0.2998	
1 and 4		61	8	2	0.0584	0.2422	✓
1 and 4	[100,200]	61	26	3	0.3004	0.5594	✓
1 and 4		61	16	4	0.158	0.3907	
1 and 4		116	17	1	0.0878	0.2242	✓
1 and 4	[200,500]	116	22	2	0.1228	0.2729	
1 and 4		116	35	3	0.22	0.3039	
1 and 4		116	42	4	0.2749	0.4565	✓
1 and 4	[500,1000]	147	31	1	0.148	0.2859	
1 and 4		147	31	2	0.149	0.2859	
1 and 4		147	35	3	0.1718	0.3153	
1 and 4	[1000,2000]	147	50	4	0.2641	0.4228	✓
1 and 4		136	26	1	0.1288	0.2674	
1 and 4		136	26	2	0.1288	0.2674	
1 and 4	[2000,3000]	136	44	3	0.2459	0.409	
1 and 4		136	40	4	0.2191	0.3783	
1 and 4		283	79	1	0.2277	0.3353	
1 and 4	[3000,5000]	283	67	2	0.1884	0.2907	
1 and 4		283	55	3	0.1499	0.2453	✓
1 and 4		283	82	4	0.2076	0.3064	
1 and 4	[5000,10000]	272	124	1	0.1827	0.2528	
1 and 4		272	149	2	0.225	0.2985	
1 and 4		272	179	3	0.2751	0.3527	✓
1 and 4	[10000,20000]	272	120	4	0.1771	0.2455	✓
1 and 4		1585	367	1	0.211	0.2531	
1 and 4		1585	428	2	0.2483	0.2926	
1 and 4	[20000,30000]	1585	470	3	0.2741	0.3197	✓
1 and 4		1585	320	4	0.1824	0.2225	✓
1 and 4		4880	1164	1	0.2266	0.2507	
1 and 4	[30000,50000]	4880	1412	2	0.2766	0.3023	✓
1 and 4		4880	1194	3	0.2327	0.257	
1 and 4		4880	1110	4	0.2138	0.2395	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 5	[0,30]	1047	165	1	0.136	0.1911	✓
1 and 5		1047	17	2	0.0415	0.07	✓
1 and 5		1047	463	3	0.4119	0.4729	✓
1 and 5	[50,100]	1047	362	4	0.3109	0.3754	✓
1 and 5		410	40	1	0.0706	0.1305	✓
1 and 5		410	27	2	0.0438	0.0944	✓
1 and 5	[100,200]	410	211	3	0.4051	0.564	✓
1 and 5		410	132	4	0.2769	0.3696	✓
1 and 5		517	66	1	0.1001	0.1595	✓
1 and 5	[200,500]	517	37	2	0.0509	0.0973	✓
1 and 5		517	265	3	0.4086	0.5564	✓
1 and 5		517	149	4	0.2495	0.3283	✓
1 and 5	[500,1000]	862	137	1	0.1351	0.1951	✓
1 and 5		862	118	2	0.1146	0.1617	✓
1 and 5		862	365	3	0.3902	0.4572	✓
1 and 5	[1000,2000]	862	242	4	0.251	0.312	✓
1 and 5		819	137	1	0.1423	0.1946	✓
1 and 5		819	148	2	0.1549	0.2088	✓
1 and 5	[2000,3000]	819	289	3	0.3201	0.3867	✓
1 and 5		819	245	4	0.2679	0.3318	✓
1 and 5		1340	292	1	0.1961	0.241	✓
1 and 5	[3000,5000]	1340	268	2	0.1789	0.2224	✓
1 and 5		1340	382	3	0.261	0.3191	✓
1 and 5		1340	398	4	0.2726	0.3223	✓
1 and 5	[5000,10000]	1282	246	1	0.1707	0.2145	✓
1 and 5		1282	297	2	0.2098	0.2558	✓
1 and 5		1282	363	3	0.2586	0.3087	✓
1 and 5	[10000,20000]	1282	376	4	0.2685	0.3191	✓
1 and 5		2394	587	1	0.2281	0.2629	
1 and 5		2394	599	2	0.233	0.2681	
1 and 5	[20000,30000]	2394	623	3	0.2428	0.2783	
1 and 5		2394	585	4	0.2273	0.2621	
1 and 5		5457	1396	1	0.2443	0.2676	
1 and 5	[30000,50000]	5457	1174	2	0.2043	0.2263	✓
1 and 5		5457	1496	3	0.2623	0.2862	✓
1 and 5		5457	1391	4	0.2434	0.2667	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
2 and 3	[0,50]	780	113	1	0.1209	0.1716	✓
2 and 3		780	57	2	0.0558	0.0936	✓
2 and 3		780	252	3	0.2903	0.3572	✓
2 and 3		780	358	4	0.4236	0.4947	✓
2 and 3	[50,100]	532	61	1	0.0889	0.1448	✓
2 and 3		532	41	2	0.0559	0.1031	✓
2 and 3		532	193	3	0.3218	0.4053	✓
2 and 3		532	237	4	0.4027	0.4889	✓
2 and 3	[100,200]	544	57	1	0.0803	0.1336	✓
2 and 3		544	49	2	0.0674	0.1173	✓
2 and 3		544	212	3	0.3085	0.4021	✓
2 and 3		544	226	4	0.3737	0.4561	✓
2 and 3	[200,500]	516	95	1	0.1526	0.2203	✓
2 and 3		516	85	2	0.1338	0.1996	✓
2 and 3		516	207	3	0.3596	0.4449	✓
2 and 3		516	129	4	0.2132	0.2897	
2 and 3	[500,1000]	384	82	1	0.1736	0.258	
2 and 3		384	102	2	0.2221	0.3128	
2 and 3		384	106	3	0.2319	0.3237	
2 and 3		384	94	4	0.2026	0.291	
2 and 3	[1000,2000]	728	158	1	0.1876	0.2488	✓
2 and 3		728	190	2	0.2294	0.2945	
2 and 3		728	199	3	0.3413	0.3973	
2 and 3		728	181	4	0.2176	0.2817	
2 and 3	[2000,3000]	642	148	1	0.1985	0.2651	
2 and 3		642	173	2	0.2355	0.3056	
2 and 3		642	162	3	0.2192	0.2878	
2 and 3		642	159	4	0.2147	0.2829	
2 and 3	[3000,5000]	1450	371	1	0.2336	0.2791	
2 and 3		1450	395	2	0.2496	0.2961	
2 and 3		1450	285	3	0.1764	0.218	✓
2 and 3		1450	399	4	0.2523	0.2989	✓
2 and 3	[5000,10000]	5017	1284	1	0.2439	0.2652	
2 and 3		5017	1257	2	0.2396	0.2628	
2 and 3		5017	1178	3	0.2231	0.2468	✓
2 and 3		5017	1288	4	0.2466	0.2711	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
2 and 4	[0,50]	348	32	1	0.0637	0.1273	✓
2 and 4		348	33	2	0.0962	0.1306	✓
2 and 4		348	112	3	0.273	0.3737	✓
2 and 4		348	171	4	0.4377	0.5432	✓
2 and 4	[50,100]	252	19	1	0.046	0.1152	✓
2 and 4		252	21	2	0.0523	0.1246	✓
2 and 4		252	66	3	0.2087	0.3208	✓
2 and 4		252	146	4	0.5158	0.641	✓
2 and 4	[100,200]	282	40	1	0.1033	0.1881	✓
2 and 4		282	27	2	0.094	0.1362	✓
2 and 4		282	81	3	0.2551	0.3439	✓
2 and 4		282	134	4	0.4156	0.5252	✓
2 and 4	[200,500]	292	66	1	0.1327	0.2092	✓
2 and 4		292	59	2	0.1106	0.1898	✓
2 and 4		292	95	3	0.2007	0.2879	
2 and 4		292	172	4	0.389	0.4895	✓
2 and 4	[500,1000]	288	65	1	0.1787	0.2784	
2 and 4		288	61	2	0.1661	0.2636	
2 and 4		288	78	3	0.2204	0.3261	
2 and 4		288	84	4	0.2308	0.3479	
2 and 4	[1000,2000]	363	84	1	0.189	0.2783	
2 and 4		363	98	2	0.225	0.3188	
2 and 4		363	135	3	0.2955	0.3937	✓
2 and 4		363	86	4	0.1187	0.1956	✓
2 and 4	[2000,3000]	427	100	1	0.1948	0.2773	
2 and 4		427	102	2	0.1992	0.2822	
2 and 4		427	127	3	0.2544	0.3433	✓
2 and 4		427	98	4	0.1904	0.2724	
2 and 4	[3000,5000]	1125	258	1	0.2031	0.255	
2 and 4		1125	298	2	0.2303	0.2917	
2 and 4		1125	256	3	0.2034	0.2532	
2 and 4		1125	313	4	0.2522	0.3054	✓
2 and 4	[5000,10000]	4291	1080	1	0.2388	0.265	
2 and 4		4291	1080	2	0.2388	0.265	
2 and 4		4291	1013	3	0.2234	0.2491	✓
2 and 4		4291	1118	4	0.2475	0.274	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
3 and 4	[0,50]	155	51	1	0.2558	0.409	✓
3 and 4		155	6	2	0.0133	0.0823	✓
3 and 4		155	48	3	0.328	0.3888	✓
3 and 4		155	50	4	0.2498	0.4023	
3 and 4	[50,100]	46	5	1	0.0302	0.2557	✓
3 and 4		46	6	2	0.0494	0.3626	
3 and 4		46	19	3	0.27	0.5677	✓
3 and 4		46	16	4	0.2135	0.5025	
3 and 4	[100,200]	85	13	1	0.084	0.2473	✓
3 and 4		85	7	2	0.0338	0.1623	✓
3 and 4		85	30	3	0.2523	0.4641	✓
3 and 4		85	35	4	0.3061	0.5238	✓
3 and 4	[200,500]	128	24	1	0.121	0.246	
3 and 4		128	24	2	0.121	0.246	
3 and 4		128	32	3	0.1777	0.3242	
3 and 4		128	48	4	0.291	0.4649	✓
3 and 4	[500,1000]	248	44	1	0.132	0.2308	✓
3 and 4		248	64	2	0.2048	0.3172	
3 and 4		248	49	3	0.1499	0.2527	
3 and 4		248	91	4	0.3068	0.4302	✓
3 and 4	[1000,2000]	600	122	1	0.1718	0.2378	✓
3 and 4		600	144	2	0.2063	0.2762	
3 and 4		600	149	3	0.2142	0.2849	
3 and 4		600	185	4	0.2716	0.347	✓
3 and 4	[2000,3000]	710	166	1	0.2031	0.2667	
3 and 4		710	196	2	0.2435	0.3105	
3 and 4		710	144	3	0.1738	0.2443	✓
3 and 4		710	204	4	0.2543	0.3221	✓
3 and 4	[3000,5000]	1741	438	1	0.2333	0.2727	
3 and 4		1741	436	2	0.2302	0.2715	
3 and 4		1741	434	3	0.2291	0.2703	
3 and 4		1741	433	4	0.2286	0.2697	
3 and 4	[5000,10000]	6053	1589	1	0.2515	0.2738	✓
3 and 4		6053	1515	2	0.2394	0.2614	
3 and 4		6053	1549	3	0.245	0.2671	
3 and 4		6053	1400	4	0.2297	0.2421	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
3 and 5	[0,50]	194	73	1	0.3079	0.4485	✓
3 and 5		194	17	2	0.0519	0.1306	✓
3 and 5		194	41	3	0.1561	0.2756	✓
3 and 5		194	63	4	0.2594	0.3955	✓
3 and 5	[50,100]	47	15	1	0.1909	0.4712	
3 and 5		47	3	2	0.0134	0.1754	✓
3 and 5		47	12	3	0.1394	0.4035	
3 and 5		47	17	4	0.2267	0.5148	
3 and 5	[100,200]	75	19	1	0.1599	0.367	
3 and 5		75	11	2	0.0796	0.2473	✓
3 and 5		75	17	3	0.1379	0.3379	
3 and 5		75	28	4	0.2643	0.4927	✓
3 and 5	[200,500]	119	14	1	0.0558	0.1895	
3 and 5		119	19	2	0.099	0.2381	✓
3 and 5		119	45	3	0.2909	0.4716	✓
3 and 5		119	41	4	0.2598	0.4372	✓
3 and 5	[500,1000]	258	49	1	0.1439	0.2432	✓
3 and 5		258	54	2	0.1613	0.2641	
3 and 5		258	75	3	0.236	0.3502	
3 and 5		258	80	4	0.2542	0.3704	✓
3 and 5	[1000,2000]	598	116	1	0.163	0.228	✓
3 and 5		598	134	2	0.1913	0.2597	
3 and 5		598	125	3	0.1771	0.2439	✓
3 and 5		598	223	4	0.334	0.4131	✓
3 and 5	[2000,3000]	811	169	1	0.1569	0.228	✓
3 and 5		811	213	2	0.2336	0.2944	
3 and 5		811	233	3	0.2445	0.3071	
3 and 5		811	206	4	0.2244	0.2854	
3 and 5	[3000,5000]	1921	492	1	0.2367	0.2762	
3 and 5		1921	516	2	0.2489	0.289	
3 and 5		1921	412	3	0.1963	0.2335	✓
3 and 5		1921	501	4	0.2413	0.2811	
3 and 5	[5000,10000]	4552	1161	1	0.2424	0.268	
3 and 5		4552	1241	2	0.2597	0.2858	✓
3 and 5		4552	1075	3	0.2239	0.2488	✓
3 and 5		4552	1075	4	0.2239	0.2488	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 7	[0,50]	712	93	1	0.1067	0.1576	✓
6 and 7		712	38	2	0.038	0.0725	✓
6 and 7		712	301	3	0.3802	0.46	✓
6 and 7		712	280	4	0.3572	0.4302	✓
6 and 7	[50,100]	488	59	1	0.0933	0.1532	✓
6 and 7		488	34	2	0.0487	0.096	✓
6 and 7		488	165	3	0.2962	0.382	✓
6 and 7		488	230	4	0.4263	0.5167	✓
6 and 7	[100,200]	489	67	1	0.1078	0.1707	✓
6 and 7		489	67	2	0.1078	0.1707	✓
6 and 7		489	154	3	0.271	0.363	✓
6 and 7		489	201	4	0.3671	0.4561	✓
6 and 7	[200,500]	567	102	1	0.1491	0.214	✓
6 and 7		567	81	2	0.1151	0.1744	✓
6 and 7		567	163	3	0.2505	0.3267	✓
6 and 7		567	221	4	0.3494	0.4313	✓
6 and 7	[500,1000]	479	103	1	0.1791	0.2546	
6 and 7		479	120	2	0.2123	0.2918	
6 and 7		479	161	3	0.2939	0.3804	✓
6 and 7		479	95	4	0.1635	0.2369	✓
6 and 7	[1000,2000]	1374	314	1	0.2066	0.2517	
6 and 7		1374	312	2	0.2052	0.2502	
6 and 7		1374	301	3	0.2008	0.3002	✓
6 and 7		1374	257	4	0.2398	0.2820	
6 and 7	[2000,3000]	1726	290	1	0.2064	0.2464	✓
6 and 7		1726	410	2	0.2176	0.2583	
6 and 7		1726	434	3	0.2311	0.2726	
6 and 7		1726	492	4	0.2638	0.307	✓
6 and 7	[3000,5000]	3092	833	1	0.2538	0.2854	✓
6 and 7		3092	751	2	0.2279	0.2584	
6 and 7		3092	746	3	0.2263	0.2568	
6 and 7		3092	762	4	0.2313	0.262	
6 and 7	[5000,10000]	6021	1558	1	0.2477	0.27	
6 and 7		6021	1405	2	0.2227	0.2442	✓
6 and 7		6021	1444	3	0.2291	0.2598	
6 and 7		6021	1614	4	0.2509	0.2794	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 8	[0,50]	32	8	1	0.1146	0.454	
6 and 8		32	5	2	0.0528	0.3279	
6 and 8		32	14	3	0.2636	0.6234	✓
6 and 8		32	5	4	0.0528	0.3279	
6 and 8	[50,100]	26	9	1	0.1721	0.5567	
6 and 8		26	3	2	0.0245	0.3015	
6 and 8		26	11	3	0.2335	0.6308	
6 and 8		26	3	4	0.0245	0.3015	
6 and 8	[100,200]	35	9	1	0.1249	0.4326	
6 and 8		35	8	2	0.1042	0.4014	
6 and 8		35	5	3	0.0596	0.3205	
6 and 8		35	12	4	0.1913	0.5221	
6 and 8	[200,500]	98	26	1	0.1852	0.2643	
6 and 8		98	19	2	0.121	0.2851	
6 and 8		98	27	3	0.1901	0.375	
6 and 8		98	26	4	0.1812	0.3641	
6 and 8	[500,1000]	215	46	1	0.1611	0.2749	
6 and 8		215	48	2	0.1604	0.2849	
6 and 8		215	66	3	0.246	0.3733	
6 and 8		215	55	4	0.1989	0.3196	
6 and 8	[1000,2000]	460	96	1	0.1724	0.2487	✓
6 and 8		460	131	2	0.244	0.3284	
6 and 8		460	138	3	0.2564	0.3442	✓
6 and 8		460	95	4	0.1704	0.2464	
6 and 8	[2000,3000]	785	185	1	0.2064	0.267	
6 and 8		785	198	2	0.2222	0.2841	
6 and 8		785	228	3	0.2589	0.3236	✓
6 and 8		785	174	4	0.1931	0.2524	
6 and 8	[3000,5000]	1804	449	1	0.2291	0.2695	
6 and 8		1804	441	2	0.2248	0.265	
6 and 8		1804	421	3	0.214	0.2536	
6 and 8		1804	493	4	0.2528	0.2945	✓
6 and 8	[5000,10000]	6333	1513	1	0.2284	0.2496	✓
6 and 8		6333	1592	2	0.2407	0.2623	
6 and 8		6333	1576	3	0.2382	0.2597	
6 and 8		6333	1652	4	0.2501	0.2719	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 9	[0,50]	51	12	1	0.1279	0.3749	✓
6 and 9		51	2	2	0.0048	0.1246	
6 and 9		51	12	3	0.1279	0.3749	
6 and 9		51	25	4	0.3475	0.624	✓
6 and 9	[50,100]	17	3	1	0.038	0.4343	
6 and 9		17	2	2	0.0146	0.3644	
6 and 9		17	5	3	0.1031	0.5596	
6 and 9		17	7	4	0.1844	0.6708	
6 and 9	[100,200]	65	9	1	0.0653	0.2466	✓
6 and 9		65	11	2	0.0876	0.2827	
6 and 9		65	22	3	0.2257	0.4665	
6 and 9		65	23	4	0.2392	0.4923	
6 and 9	[200,500]	182	27	1	0.1001	0.2085	✓
6 and 9		182	38	2	0.1522	0.2711	
6 and 9		182	55	3	0.2365	0.3745	
6 and 9		182	62	4	0.2722	0.4144	✓
6 and 9	[500,1000]	378	67	1	0.1402	0.2136	✓
6 and 9		378	95	2	0.2084	0.2982	
6 and 9		378	116	3	0.2607	0.3561	✓
6 and 9		378	100	4	0.2208	0.3121	
6 and 9	[1000,2000]	1024	237	1	0.2059	0.2585	
6 and 9		1024	243	2	0.2115	0.2646	
6 and 9		1024	266	3	0.2331	0.2878	
6 and 9		1024	278	4	0.2444	0.2998	
6 and 9	[2000,3000]	1256	276	1	0.1971	0.2427	✓
6 and 9		1256	283	2	0.2025	0.2495	
6 and 9		1256	342	3	0.2478	0.2978	
6 and 9		1256	355	4	0.2579	0.3084	✓
6 and 9	[3000,5000]	2940	785	1	0.2511	0.2834	✓
6 and 9		2940	730	2	0.2328	0.2643	
6 and 9		2940	745	3	0.2378	0.3095	
6 and 9		2940	680	4	0.2162	0.247	✓
6 and 9	[5000,10000]	8171	2236	1	0.264	0.2835	✓
6 and 9		8171	1884	2	0.2215	0.2399	✓
6 and 9		8171	1940	3	0.2282	0.2468	✓
6 and 9		8171	2111	4	0.2489	0.268	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 10	[0,50]	113	22	1	0.1262	0.3798	
6 and 10		113	18	2	0.0972	0.24	✓
6 and 10		113	52	3	0.306	0.5565	✓
6 and 10		113	21	4	0.1189	0.2699	
6 and 10	[50,100]	91	15	1	0.0783	0.2319	✓
6 and 10		91	12	2	0.07	0.219	✓
6 and 10		91	45	3	0.388	0.6014	✓
6 and 10		91	21	4	0.1489	0.3309	
6 and 10	[100,200]	96	18	1	0.1151	0.28	
6 and 10		96	14	2	0.0821	0.2326	✓
6 and 10		96	43	3	0.3463	0.5529	✓
6 and 10		96	21	4	0.1408	0.3147	
6 and 10	[200,500]	296	61	1	0.1015	0.2507	
6 and 10		296	46	2	0.1361	0.2018	✓
6 and 10		296	125	3	0.3654	0.4808	✓
6 and 10		296	64	4	0.1707	0.2675	
6 and 10	[500,1000]	451	97	1	0.178	0.2559	
6 and 10		451	95	2	0.1739	0.2512	
6 and 10		451	157	3	0.3042	0.3941	✓
6 and 10		451	102	4	0.1883	0.2676	
6 and 10	[1000,2000]	1126	282	1	0.2254	0.2708	
6 and 10		1126	292	2	0.2339	0.296	
6 and 10		1126	290	3	0.2322	0.2841	
6 and 10		1126	262	4	0.2083	0.2585	
6 and 10	[2000,3000]	1415	360	1	0.2319	0.278	
6 and 10		1415	389	2	0.2518	0.299	✓
6 and 10		1415	335	3	0.2148	0.2598	
6 and 10		1415	331	4	0.2121	0.2569	
6 and 10	[3000,5000]	3649	975	1	0.2529	0.2819	✓
6 and 10		3649	833	2	0.2147	0.2423	✓
6 and 10		3649	916	3	0.237	0.3054	
6 and 10		3649	925	4	0.2394	0.2679	
6 and 10	[5000,10000]	8987	2412	1	0.2592	0.2777	✓
6 and 10		8987	2128	2	0.228	0.2437	✓
6 and 10		8987	2369	3	0.2545	0.2728	✓
6 and 10		8987	2078	4	0.2225	0.2401	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
7 and 8	[0,50]	512	64	1	0.0676	0.5568	✓
7 and 8		512	44	2	0.0631	0.1137	✓
7 and 8		512	210	3	0.3672	0.4542	✓
7 and 8		512	194	4	0.3367	0.4225	✓
7 and 8	[50,100]	395	61	1	0.1202	0.1939	✓
7 and 8		395	39	2	0.0712	0.1325	✓
7 and 8		395	180	3	0.4058	0.5063	✓
7 and 8		395	115	4	0.2468	0.3387	✓
7 and 8	[100,200]	409	68	1	0.1315	0.206	✓
7 and 8		409	53	2	0.0996	0.1661	✓
7 and 8		409	168	3	0.3627	0.4602	✓
7 and 8		409	120	4	0.2487	0.3491	✓
7 and 8	[200,500]	643	125	1	0.1645	0.2271	✓
7 and 8		643	101	2	0.1298	0.1875	✓
7 and 8		643	222	3	0.3085	0.3834	✓
7 and 8		643	195	4	0.2679	0.3494	✓
7 and 8	[500,1000]	916	187	1	0.1785	0.2317	✓
7 and 8		916	181	2	0.1723	0.2249	✓
7 and 8		916	289	3	0.2855	0.3467	✓
7 and 8		916	259	4	0.2538	0.3131	✓
7 and 8	[1000,2000]	1752	413	1	0.216	0.2563	✓
7 and 8		1752	404	2	0.211	0.251	✓
7 and 8		1752	179	3	0.2526	0.3049	✓
7 and 8		1752	456	4	0.2389	0.2815	✓
7 and 8	[2000,3000]	1767	436	1	0.2388	0.2675	✓
7 and 8		1767	453	2	0.2361	0.2774	✓
7 and 8		1767	420	3	0.218	0.2562	✓
7 and 8		1767	458	4	0.2389	0.2803	✓
7 and 8	[3000,5000]	4009	974	1	0.2297	0.2565	✓
7 and 8		4009	1069	2	0.253	0.2806	✓
7 and 8		4009	938	3	0.2309	0.2474	✓
7 and 8		4009	1028	4	0.243	0.2702	✓
7 and 8	[5000,10000]	9591	2466	1	0.2484	0.266	✓
7 and 8		9591	2389	2	0.2405	0.2579	✓
7 and 8		9591	2089	3	0.2096	0.2262	✓
7 and 8		9591	2647	4	0.2671	0.2851	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
7 and 9	[0,50]	102	20	1	0.1241	0.2805	✓
7 and 9		102	5	2	0.0161	0.1107	✓
7 and 9		102	35	3	0.2519	0.4437	✓
7 and 9		102	42	4	0.3152	0.5136	✓
7 and 9	[50,100]	75	10	1	0.0658	0.2316	✓
7 and 9		75	9	2	0.0564	0.2156	✓
7 and 9		75	19	3	0.1599	0.367	✓
7 and 9		75	37	4	0.3778	0.6114	✓
7 and 9	[100,200]	73	9	1	0.058	0.2212	✓
7 and 9		73	7	2	0.0394	0.1876	✓
7 and 9		73	22	3	0.1594	0.42	✓
7 and 9		73	25	4	0.361	0.5996	✓
7 and 9	[200,500]	200	27	1	0.0909	0.1903	✓
7 and 9		200	27	2	0.0909	0.1903	✓
7 and 9		200	74	3	0.303	0.4499	✓
7 and 9		200	72	4	0.2935	0.4307	✓
7 and 9	[500,1000]	373	75	1	0.1616	0.2454	✓
7 and 9		373	92	2	0.2037	0.2936	✓
7 and 9		373	98	3	0.2188	0.3105	✓
7 and 9		373	108	4	0.244	0.3385	✓
7 and 9	[1000,2000]	823	204	1	0.2187	0.2789	✓
7 and 9		823	176	2	0.1963	0.2435	✓
7 and 9		823	231	3	0.2385	0.3092	✓
7 and 9		823	222	4	0.2387	0.3015	✓
7 and 9	[2000,3000]	1198	283	1	0.2124	0.2613	✓
7 and 9		1198	271	2	0.2028	0.251	✓
7 and 9		1198	317	3	0.2398	0.2906	✓
7 and 9		1198	327	4	0.2479	0.2991	✓
7 and 9	[3000,5000]	2800	693	1	0.2316	0.2639	✓
7 and 9		2800	702	2	0.2347	0.2672	✓
7 and 9		2800	748	3	0.2508	0.2839	✓
7 and 9		2800	657	4	0.2191	0.2508	✓
7 and 9	[5000,10000]	7627	1896	1	0.2389	0.2585	✓
7 and 9		7627	1824	2	0.2296	0.2489	✓
7 and 9		7627	1944	3	0.2451	0.2648	✓
7 and 9		7627	1963	4	0.2476	0.2673	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
7 and 10	[0,50]	30	7	1	0.0993	0.4228	
7 and 10		30	3	2	0.0211	0.2623	
7 and 10		30	6	3	0.0773	0.2857	
7 and 10		30	14	4	0.2834	0.6567	✓
7 and 10	[50,100]	28	6	1	0.082	0.4095	
7 and 10		28	3	2	0.0227	0.2823	
7 and 10		28	9	3	0.1588	0.5235	
7 and 10		28	10	4	0.1864	0.5503	
7 and 10	[100,200]	22	6	1	0.1073	0.5022	✓
7 and 10		22	3	2	0.0291	0.3491	
7 and 10		22	10	3	0.2439	0.6779	
7 and 10		22	3	4	0.0291	0.3491	
7 and 10	[200,500]	106	20	1	0.1192	0.2762	
7 and 10		106	21	2	0.127	0.2868	
7 and 10		106	47	3	0.3469	0.5431	✓
7 and 10		106	18	4	0.1039	0.255	
7 and 10	[500,1000]	240	50	1	0.1588	0.2652	
7 and 10		240	67	2	0.2234	0.3405	
7 and 10		240	74	3	0.2505	0.371	✓
7 and 10		240	49	4	0.155	0.2608	
7 and 10	[1000,2000]	515	91	1	0.1447	0.2124	✓
7 and 10		515	127	2	0.2099	0.2862	
7 and 10		515	164	3	0.2784	0.3606	✓
7 and 10		515	133	4	0.221	0.2983	
7 and 10	[2000,3000]	937	203	1	0.1907	0.2444	✓
7 and 10		937	223	2	0.2111	0.2866	
7 and 10		937	307	3	0.2976	0.3587	✓
7 and 10		937	204	4	0.1917	0.2455	✓
7 and 10	[3000,5000]	2464	579	1	0.2184	0.2522	
7 and 10		2464	583	2	0.2199	0.2539	
7 and 10		2464	723	3	0.2755	0.3118	✓
7 and 10		2464	579	4	0.2184	0.2522	
7 and 10	[5000,10000]	8433	2060	1	0.2351	0.2536	
7 and 10		8433	2121	2	0.2423	0.2609	
7 and 10		8433	2205	3	0.2521	0.271	✓
7 and 10		8433	2047	4	0.2336	0.252	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 9	[0,50]	26	7	1	0.1127	0.4779	
8 and 9		26	1	2	0.001	0.1964	✓
8 and 9		26	9	3	0.1721	0.5567	
8 and 9		26	9	4	0.1721	0.5567	
8 and 9	[50,100]	22	3	1	0.0291	0.3491	
8 and 9		22	1	2	0.0012	0.2284	✓
8 and 9		22	7	3	0.1386	0.5487	
8 and 9		22	11	4	0.2822	0.7178	✓
8 and 9	[100,200]	26	4	1	0.0436	0.3487	
8 and 9		26	1	2	0.001	0.1964	✓
8 and 9		26	12	3	0.2659	0.6603	✓
8 and 9		26	9	4	0.1721	0.5567	
8 and 9	[200,500]	88	15	1	0.0967	0.2655	
8 and 9		88	13	2	0.0811	0.2394	✓
8 and 9		88	21	3	0.1542	0.3414	
8 and 9		88	39	4	0.3372	0.553	✓
8 and 9	[500,1000]	236	40	1	0.1239	0.2236	✓
8 and 9		236	51	2	0.1653	0.2741	
8 and 9		236	59	3	0.1961	0.3103	
8 and 9		236	86	4	0.3029	0.4293	✓
8 and 9	[1000,2000]	479	94	1	0.1616	0.2347	✓
8 and 9		479	114	2	0.2005	0.2787	
8 and 9		479	152	3	0.2758	0.3611	✓
8 and 9		479	119	4	0.2103	0.2997	
8 and 9	[2000,3000]	596	115	1	0.1023	0.2279	✓
8 and 9		595	184	2	0.2723	0.3484	✓
8 and 9		595	173	3	0.2545	0.3299	
8 and 9		595	123	4	0.1749	0.2415	✓
8 and 9	[3000,5000]	1666	400	1	0.2198	0.2614	
8 and 9		1666	488	2	0.2711	0.3154	✓
8 and 9		1666	405	3	0.2227	0.2644	
8 and 9		1666	373	4	0.2041	0.2447	✓
8 and 9	[5000,10000]	7888	1944	1	0.237	0.2561	
8 and 9		7888	2065	2	0.2521	0.2716	✓
8 and 9		7888	2026	3	0.2472	0.2666	
8 and 9		7888	1853	4	0.2296	0.2444	✓

Pair	Distance interval (n)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
9 and 10	[0,50]	69	10	1	0.0717	0.2504	
9 and 10		69	9	2	0.0614	0.2332	✓
9 and 10		69	39	3	0.4404	0.6842	✓
9 and 10		69	11	4	0.0824	0.2674	
9 and 10	[50,100]	52	12	1	0.1253	0.3684	
9 and 10		52	8	2	0.0823	0.3033	
9 and 10		52	20	3	0.255	0.5298	✓
9 and 10		52	11	4	0.1106	0.317	
9 and 10	[100,200]	92	20	1	0.1381	0.3156	
9 and 10		92	10	2	0.0534	0.1908	✓
9 and 10		92	44	3	0.373	0.585	✓
9 and 10		92	18	4	0.1203	0.2915	
9 and 10	[200,500]	272	59	1	0.1694	0.2707	
9 and 10		272	52	2	0.1462	0.243	✓
9 and 10		272	85	3	0.2579	0.3713	✓
9 and 10		272	76	4	0.2269	0.3368	
9 and 10	[500,1000]	676	144	1	0.1827	0.2458	✓
9 and 10		676	156	2	0.1995	0.2614	
9 and 10		676	222	3	0.2931	0.3652	✓
9 and 10		676	154	4	0.1967	0.2613	
9 and 10	[1000,2000]	1694	381	1	0.2052	0.2456	✓
9 and 10		1694	406	2	0.2195	0.2607	
9 and 10		1694	544	3	0.2989	0.344	✓
9 and 10		1694	363	4	0.195	0.2346	✓
9 and 10	[2000,3000]	2233	581	1	0.2465	0.2835	
9 and 10		2233	502	2	0.2076	0.2427	✓
9 and 10		2233	595	3	0.2482	0.2853	
9 and 10		2233	545	4	0.2264	0.2624	
9 and 10	[3000,5000]	4775	1227	1	0.2446	0.3096	
9 and 10		4775	1123	2	0.2232	0.2475	✓
9 and 10		4775	1253	3	0.25	0.2731	
9 and 10		4775	1172	4	0.2333	0.2579	
9 and 10	[5000,10000]	11216	2911	1	0.2514	0.2678	✓
9 and 10		11216	2666	2	0.2298	0.2457	✓
9 and 10		11216	2905	3	0.2589	0.2753	✓
9 and 10		11216	2644	4	0.2279	0.2437	✓

## 6.2. 20-min pairs

Pair	Distance interval (n)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 3	[0,50]	324	51	1	0.1195	0.2017	✓
1 and 3		324	23	2	0.0455	0.1046	✓
1 and 3		324	136	3	0.3654	0.4756	✓
1 and 3		324	114	4	0.2999	0.4066	✓
1 and 3	[50,100]	121	19	1	0.0973	0.2343	✓
1 and 3		121	8	2	0.029	0.1261	✓
1 and 3		121	58	3	0.3877	0.572	✓
1 and 3		121	36	4	0.2179	0.3811	✓
1 and 3	[100,200]	96	11	1	0.0566	0.1958	✓
1 and 3		96	8	2	0.0387	0.1576	✓
1 and 3		96	44	3	0.3562	0.5631	✓
1 and 3		96	33	4	0.2498	0.4177	✓
1 and 3	[200,500]	172	28	1	0.111	0.2266	✓
1 and 3		172	25	2	0.0663	0.207	✓
1 and 3		172	62	3	0.2888	0.437	✓
1 and 3		172	57	4	0.2616	0.4071	✓
1 and 3	[500,1000]	261	60	1	0.1803	0.2858	✓
1 and 3		261	46	2	0.132	0.228	✓
1 and 3		261	65	3	0.1978	0.3061	✓
1 and 3		261	30	4	0.2873	0.4619	✓
1 and 3	[1000,2000]	576	122	1	0.1791	0.2475	✓
1 and 3		576	117	2	0.171	0.2383	✓
1 and 3		576	167	3	0.2532	0.3289	✓
1 and 3		576	170	4	0.2562	0.3342	✓
1 and 3	[2000,3000]	677	176	1	0.2273	0.2948	✓
1 and 3		677	189	2	0.2457	0.3146	✓
1 and 3		677	157	3	0.3096	0.3656	
1 and 3		677	155	4	0.1978	0.2625	
1 and 3	[3000,5000]	1657	378	1	0.2081	0.2491	✓
1 and 3		1657	423	2	0.2344	0.277	
1 and 3		1657	444	3	0.3488	0.39	
1 and 3		1657	412	4	0.228	0.2703	
1 and 3	[5000,10000]	2650	600	1	0.2106	0.2428	✓
1 and 3		2650	717	2	0.2537	0.2879	✓
1 and 3		2650	738	3	0.2615	0.296	✓
1 and 3		2650	595	4	0.2088	0.2409	✓

Pair	Distance interval (n)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 4	[0,50]	171	35	1	0.1469	0.273	
1 and 4		171	12	2	0.0308	0.1194	✓
1 and 4		171	58	3	0.2687	0.4154	✓
1 and 4		171	66	4	0.3126	0.4633	✓
1 and 4	[50,100]	123	21	1	0.1089	0.2491	✓
1 and 4		123	7	2	0.0532	0.1137	✓
1 and 4		123	38	3	0.2288	0.3986	
1 and 4		123	57	4	0.2731	0.5156	✓
1 and 4	[100,200]	113	14	1	0.0694	0.1991	✓
1 and 4		113	17	2	0.0903	0.2299	✓
1 and 4		113	30	3	0.1868	0.3568	
1 and 4		113	52	4	0.306	0.5565	✓
1 and 4	[200,500]	133	19	1	0.0883	0.2141	✓
1 and 4		133	27	2	0.1383	0.2814	
1 and 4		133	40	3	0.2243	0.3863	
1 and 4		133	47	4	0.2725	0.4409	✓
1 and 4	[500,1000]	228	44	1	0.1439	0.2503	
1 and 4		228	45	2	0.1478	0.255	
1 and 4		228	50	3	0.1674	0.2787	
1 and 4		228	69	4	0.2366	0.417	✓
1 and 4	[1000,2000]	433	111	1	0.2159	0.3002	
1 and 4		433	96	2	0.1621	0.2394	✓
1 and 4		433	134	3	0.2442	0.3315	
1 and 4		433	112	4	0.218	0.3026	
1 and 4	[2000,3000]	224	49	1	0.1664	0.2787	
1 and 4		224	63	2	0.2234	0.345	
1 and 4		224	64	3	0.2275	0.3497	
1 and 4		224	48	4	0.1624	0.2739	
1 and 4	[3000,5000]	773	206	1	0.2356	0.2992	
1 and 4		773	188	2	0.2133	0.275	
1 and 4		773	206	3	0.2356	0.2992	
1 and 4		773	173	4	0.1949	0.2549	
1 and 4	[5000,10000]	1255	336	1	0.2434	0.2931	
1 and 4		1255	317	2	0.2288	0.2776	
1 and 4		1255	322	3	0.2326	0.2817	
1 and 4		1255	280	4	0.2003	0.2472	✓



Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 5	[0,50]	155	23	1	0.0964	0.2143	✓
1 and 5		155	17	2	0.0652	0.1898	✓
1 and 5		155	43	3	0.2086	0.355	
1 and 5	[50,100]	155	72	4	0.3843	0.5453	✓
1 and 5		105	24	1	0.1523	0.3207	
1 and 5		105	10	2	0.0466	0.1682	✓
1 and 5	[100,200]	105	37	3	0.2616	0.4517	✓
1 and 5		105	34	4	0.2357	0.4221	
1 and 5		107	18	1	0.1029	0.2528	
1 and 5	[200,500]	107	15	2	0.0896	0.2207	✓
1 and 5		107	20	3	0.1078	0.2752	
1 and 5		107	44	4	0.317	0.5105	✓
1 and 5	[500,1000]	170	22	1	0.0829	0.1894	✓
1 and 5		170	28	2	0.1123	0.2292	
1 and 5		170	55	3	0.2539	0.3994	✓
1 and 5	[1000,2000]	170	65	4	0.309	0.4599	✓
1 and 5		211	41	1	0.1432	0.2542	
1 and 5		211	46	2	0.1643	0.2799	
1 and 5	[2000,3000]	211	37	3	0.1266	0.2335	✓
1 and 5		211	87	4	0.3452	0.482	✓
1 and 5		424	90	1	0.1743	0.2543	
1 and 5	[3000,5000]	424	106	2	0.2095	0.2941	
1 and 5		424	122	3	0.2451	0.3333	
1 and 5		424	106	4	0.2095	0.2941	
1 and 5	[5000,10000]	375	98	1	0.2176	0.3089	
1 and 5		375	88	2	0.1927	0.2869	
1 and 5		375	86	3	0.1877	0.2753	
1 and 5	[10000,20000]	375	103	4	0.2303	0.3228	
1 and 5		924	259	1	0.2515	0.3105	✓
1 and 5		924	210	2	0.2006	0.2557	
1 and 5	[20000,30000]	924	247	3	0.239	0.2971	
1 and 5		924	208	4	0.1985	0.2534	
1 and 5		1544	427	1	0.2544	0.2996	✓
1 and 5	[30000,50000]	1544	371	2	0.2192	0.2624	
1 and 5		1544	402	3	0.2386	0.2821	
1 and 5		1544	344	4	0.2023	0.2444	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 14	[0,50]	176	38	1	0.1576	0.2843	
1 and 14		176	12	2	0.0307	0.1161	✓
1 and 14		176	59	3	0.266	0.4101	✓
1 and 14	[50,100]	176	67	4	0.3087	0.4568	✓
1 and 14		131	10	1	0.0372	0.1359	
1 and 14		131	5	2	0.0125	0.0668	✓
1 and 14	[100,200]	131	66	3	0.4352	0.5923	✓
1 and 14		131	50	4	0.2982	0.4706	✓
1 and 14		101	10	1	0.0485	0.1746	
1 and 14	[200,500]	101	6	2	0.0221	0.1248	✓
1 and 14		101	36	3	0.2636	0.4579	✓
1 and 14		101	49	4	0.2845	0.5087	✓
1 and 14	[500,1000]	170	23	1	0.0877	0.1963	✓
1 and 14		170	24	2	0.0926	0.2027	✓
1 and 14		170	67	3	0.3202	0.4718	✓
1 and 14	[1000,2000]	170	56	4	0.2594	0.4055	✓
1 and 14		124	16	1	0.0756	0.2011	✓
1 and 14		124	22	2	0.1147	0.2562	
1 and 14	[2000,3000]	124	54	3	0.3467	0.5274	✓
1 and 14		124	32	4	0.1837	0.3443	
1 and 14		278	51	1	0.1388	0.234	✓
1 and 14	[3000,5000]	278	66	2	0.1886	0.2959	
1 and 14		278	108	3	0.3309	0.4485	✓
1 and 14		278	53	4	0.1462	0.2415	
1 and 14	[5000,10000]	272	65	1	0.1895	0.2942	
1 and 14		272	63	2	0.1828	0.2864	
1 and 14		272	84	3	0.2544	0.3674	✓
1 and 14	[10000,20000]	272	60	4	0.1728	0.2746	
1 and 14		366	88	1	0.1975	0.2876	
1 and 14		366	87	2	0.195	0.2847	
1 and 14	[20000,30000]	366	97	3	0.2305	0.3134	
1 and 14		366	94	4	0.2128	0.3048	
1 and 14		900	191	1	0.1859	0.2404	✓
1 and 14	[30000,50000]	900	234	2	0.2316	0.29	
1 and 14		900	264	3	0.2657	0.3243	✓
1 and 14		900	211	4	0.2073	0.2655	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
3 and 15	[0,50]	61	9	1	0.0098	0.2017	
3 and 15		61	5	2	0.0272	0.134	✓
3 and 15		61	21	3	0.2273	0.4769	
3 and 15	[50,100]	61	26	4	0.3004	0.5504	✓
3 and 15		37	3	1	0.007	0.2191	✓
3 and 15		37	5	2	0.0454	0.2877	
3 and 15	[100,200]	37	14	3	0.2246	0.5524	
3 and 15		37	15	4	0.2475	0.579	
3 and 15		49	6	1	0.0463	0.2477	✓
3 and 15	[200,500]	49	1	2	5e-04	0.1085	✓
3 and 15		49	23	3	0.3253	0.6173	✓
3 and 15		49	19	4	0.252	0.5376	✓
3 and 15	[500,1000]	132	25	1	0.1295	0.2608	
3 and 15		132	23	2	0.1138	0.2409	✓
3 and 15		132	46	3	0.3677	0.4363	✓
3 and 15	[1000,2000]	132	38	4	0.2124	0.3731	
3 and 15		240	37	1	0.1109	0.2062	✓
3 and 15		240	49	2	0.155	0.2608	
3 and 15	[2000,3000]	240	72	3	0.2427	0.3623	
3 and 15		240	82	4	0.2819	0.4054	✓
3 and 15		539	123	1	0.1934	0.266	
3 and 15	[3000,5000]	539	105	2	0.1622	0.2308	✓
3 and 15		539	166	3	0.2692	0.3489	✓
3 and 15		539	145	4	0.232	0.3096	
3 and 15	[5000,10000]	542	145	1	0.2307	0.3069	
3 and 15		542	112	2	0.213	0.3203	
3 and 15		542	143	3	0.2272	0.3031	
3 and 15	[10000,20000]	542	102	4	0.1561	0.2237	✓
3 and 15		1356	332	1	0.2222	0.2686	
3 and 15		1356	349	2	0.2343	0.2815	
3 and 15	[20000,30000]	1356	361	3	0.2429	0.2906	
3 and 15		1356	314	4	0.2093	0.255	
3 and 15		3446	862	1	0.2358	0.265	
3 and 15	[30000,50000]	3446	834	2	0.2278	0.2567	
3 and 15		3446	959	3	0.2634	0.2936	✓
3 and 15		3446	791	4	0.2156	0.244	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
4 and 5	[0,50]	2398	258	1	0.0955	0.1207	✓
4 and 5		2398	163	2	0.0592	0.0788	✓
4 and 5		2398	659	3	0.257	0.2932	✓
4 and 5	[50,100]	2398	1318	4	0.5285	0.5697	✓
4 and 5		1414	141	1	0.0846	0.1165	✓
4 and 5		1414	98	2	0.0566	0.0838	✓
4 and 5	[100,200]	1414	456	3	0.2982	0.3476	✓
4 and 5		1414	719	4	0.4821	0.5349	✓
4 and 5		1000	120	1	0.1005	0.1418	✓
4 and 5	[200,500]	1000	105	2	0.0867	0.1237	✓
4 and 5		1000	292	3	0.2543	0.311	✓
4 and 5		1000	493	4	0.4616	0.5245	✓
4 and 5	[500,1000]	634	114	1	0.1097	0.212	✓
4 and 5		634	69	2	0.0857	0.1257	✓
4 and 5		634	290	3	0.2794	0.3532	✓
4 and 5	[1000,2000]	634	251	4	0.3576	0.4352	✓
4 and 5		294	60	1	0.1595	0.2547	
4 and 5		294	47	2	0.1199	0.2069	✓
4 and 5	[2000,3000]	294	99	3	0.2829	0.3039	✓
4 and 5		294	88	4	0.2475	0.3552	
4 and 5		495	139	1	0.2416	0.3226	
4 and 5	[3000,5000]	495	111	2	0.1882	0.2636	
4 and 5		495	115	3	0.1958	0.2721	
4 and 5		495	130	4	0.2244	0.3037	
4 and 5	[5000,10000]	313	33	1	0.247	0.3511	
4 and 5		313	74	2	0.1994	0.2975	
4 and 5		313	60	3	0.1496	0.2397	✓
4 and 5	[10000,20000]	313	86	4	0.226	0.3278	
4 and 5		665	167	1	0.2586	0.2859	
4 and 5		665	184	2	0.243	0.3124	
4 and 5	[20000,30000]	665	134	3	0.1716	0.234	✓
4 and 5		665	180	4	0.2372	0.3062	
4 and 5		1503	381	1	0.2317	0.2763	
4 and 5	[30000,50000]	1503	348	2	0.2104	0.2537	
4 and 5		1503	371	3	0.2252	0.2695	
4 and 5		1503	403	4	0.2469	0.2913	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
5 and 8	[0,50]	36	4	1	0.0321	0.3006	
5 and 8		36	0	2	0	0.0073	✓
5 and 8		36	13	3	0.2062	0.5379	
5 and 8	[50,100]	36	19	4	0.3549	0.6059	✓
5 and 8		35	3	1	0.018	0.2306	✓
5 and 8		35	2	2	0.007	0.1916	✓
5 and 8		35	23	3	0.4779	0.8087	✓
5 and 8		35	7	4	0.0844	0.3094	
5 and 8		75	6	1	0.0299	0.166	✓
5 and 8	[100,200]	75	5	2	0.022	0.1488	✓
5 and 8		75	50	3	0.5493	0.7714	✓
5 and 8		75	14	4	0.106	0.2923	
5 and 8	[200,500]	106	19	1	0.1115	0.2657	
5 and 8		106	13	2	0.0669	0.2006	✓
5 and 8		106	55	3	0.4197	0.617	✓
5 and 8		106	19	4	0.1115	0.2657	
5 and 8		124	25	1	0.1349	0.2831	
5 and 8		124	22	2	0.1147	0.2562	
5 and 8	[500,1000]	124	56	3	0.3621	0.5435	✓
5 and 8		124	21	4	0.108	0.2472	✓
5 and 8		258	61	1	0.1859	0.2031	
5 and 8		258	54	2	0.1613	0.2641	
5 and 8		258	85	3	0.2724	0.3967	✓
5 and 8		258	58	4	0.1724	0.2867	
5 and 8		265	61	1	0.1869	0.2856	
5 and 8		265	56	2	0.1638	0.2655	
5 and 8		265	106	3	0.3405	0.4617	✓
5 and 8		265	42	4	0.1167	0.2081	✓
5 and 8	[3000,5000]	599	156	1	0.2257	0.2975	
5 and 8		599	171	2	0.2496	0.3235	
5 and 8		599	156	3	0.2257	0.2975	
5 and 8		599	116	4	0.1628	0.2276	✓
5 and 8		2344	565	1	0.2238	0.2589	
5 and 8		2344	630	2	0.2599	0.2872	✓
5 and 8		2344	540	3	0.2135	0.248	✓
5 and 8		2344	609	4	0.2422	0.2781	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
5 and 13	[0,50]	48	5	1	0.0347	0.2596	✓
5 and 13		48	3	2	0.0131	0.172	✓
5 and 13		48	28	3	0.4221	0.7229	✓
5 and 13		48	12	4	0.1364	0.306	
5 and 13		53	10	1	0.0944	0.3197	
5 and 13		53	8	2	0.0675	0.2759	
5 and 13		53	23	5	0.2984	0.5772	✓
5 and 13		53	12	4	0.1228	0.3621	
5 and 13	[100,200]	41	11	1	0.1422	0.4294	
5 and 13		41	6	2	0.0557	0.2917	
5 and 13		41	19	5	0.3096	0.6258	✓
5 and 13		41	5	4	0.0498	0.282	
5 and 13		103	13	1	0.0689	0.2962	✓
5 and 13		103	21	2	0.1309	0.2946	
5 and 13		103	48	3	0.3671	0.567	✓
5 and 13		103	21	4	0.1309	0.2946	
5 and 13		124	31	1	0.1766	0.3357	
5 and 13	[500,1000]	124	26	2	0.1418	0.2919	
5 and 13		124	52	5	0.3314	0.5113	✓
5 and 13		124	15	4	0.0603	0.1917	✓
5 and 13	[1000,2000]	221	55	1	0.1033	0.3113	
5 and 13		221	47	2	0.1006	0.2726	
5 and 13		221	65	5	0.2109	0.3599	
5 and 13		221	54	4	0.1892	0.3065	
5 and 13		209	53	1	0.1961	0.3282	
5 and 13		209	56	2	0.2092	0.3334	
5 and 13		209	41	3	0.1446	0.2566	
5 and 13		209	59	4	0.2224	0.3485	
5 and 13		466	130	1	0.2571	0.3421	✓
5 and 13	[3000,5000]	466	101	2	0.1802	0.257	
5 and 13		466	112	5	0.2022	0.2818	
5 and 13		466	114	4	0.2063	0.2863	
5 and 13	[5000,10000]	1442	343	1	0.2161	0.2607	
5 and 13		1442	408	2	0.2598	0.307	✓
5 and 13		1442	363	5	0.2595	0.275	
5 and 13		1442	328	4	0.2061	0.25	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
5 and 14	[0,50]	87	17	1	0.1191	0.2643	
5 and 14		87	8	2	0.0495	0.1732	✓
5 and 14		87	42	3	0.3742	0.5925	✓
5 and 14		87	20	4	0.1464	0.3225	
5 and 14		36	7	1	0.0859	0.3602	
5 and 14		36	3	2	0.0175	0.2247	✓
5 and 14		36	17	3	0.3041	0.6451	✓
5 and 14		36	9	4	0.1212	0.422	
5 and 14	[100,200]	49	4	1	0.0227	0.196	✓
5 and 14		49	2	2	0.005	0.1398	✓
5 and 14		49	34	3	0.5458	0.8175	✓
5 and 14		49	9	4	0.0876	0.3202	
5 and 14		90	18	1	0.1221	0.2975	
5 and 14		90	13	2	0.0792	0.2343	✓
5 and 14	[200,500]	90	43	3	0.3713	0.5657	✓
5 and 14		90	16	4	0.1052	0.2726	
5 and 14		99	19	1	0.1197	0.2824	
5 and 14		99	21	2	0.1364	0.3058	
5 and 14		99	49	3	0.3929	0.5973	✓
5 and 14		99	10	4	0.0495	0.1779	✓
5 and 14		278	58	1	0.1624	0.3612	
5 and 14		278	59	2	0.1657	0.265	
5 and 14	[1000,2000]	278	110	3	0.3378	0.4558	✓
5 and 14		278	51	4	0.1398	0.234	✓
5 and 14		208	56	1	0.1484	0.2295	✓
5 and 14	[2000,3000]	208	68	2	0.1757	0.2713	✓
5 and 14		208	80	3	0.2317	0.3125	
5 and 14		208	104	4	0.285	0.3635	✓
5 and 14	[3000,5000]	571	121	1	0.1905	0.2661	
5 and 14		571	152	2	0.2304	0.3045	
5 and 14		571	115	3	0.1692	0.2367	✓
5 and 14		571	173	4	0.2655	0.3425	✓
5 and 14		1231	334	1	0.2466	0.2971	
5 and 14		1231	311	2	0.2296	0.2779	
5 and 14	[5000,10000]	1231	288	3	0.2106	0.2586	
5 and 14		1231	298	4	0.2184	0.267	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
5 and 15	[0,50]	95	10	1	0.0166	0.1851	✓
5 and 15		95	8	2	0.0071	0.1792	✓
5 and 15		95	63	3	0.5595	0.7569	✓
5 and 15		95	14	4	0.083	0.2349	✓
5 and 15		63	4	1	0.0176	0.1547	✓
5 and 15		63	11	2	0.0065	0.291	
5 and 15		63	40	3	0.504	0.7527	✓
5 and 15		63	8	4	0.0565	0.235	✓
5 and 15	[100,200]	94	4	1	0.0117	0.1054	✓
5 and 15		94	11	2	0.0599	0.1997	✓
5 and 15		94	64	3	0.5767	0.7743	✓
5 and 15		94	15	4	0.0922	0.2495	✓
5 and 15		124	11	1	0.0611	0.1532	✓
5 and 15		124	13	2	0.027	0.1726	✓
5 and 15	[200,500]	124	87	3	0.6129	0.7804	✓
5 and 15		124	13	4	0.027	0.1726	✓
5 and 15		150	23	1	0.0998	0.2211	✓
5 and 15	[500,1000]	150	30	2	0.1392	0.273	
5 and 15		150	70	3	0.3849	0.5498	✓
5 and 15		150	27	4	0.1221	0.251	
5 and 15		178	27	1	0.1024	0.213	✓
5 and 15		178	53	2	0.2317	0.3707	✓
5 and 15		178	70	3	0.321	0.4691	✓
5 and 15	[1000,2000]	178	28	4	0.1071	0.2193	✓
5 and 15		187	38	1	0.118	0.2061	
5 and 15		187	44	2	0.1792	0.3027	
5 and 15	[2000,3000]	187	51	3	0.2193	0.3425	
5 and 15		187	54	4	0.225	0.3594	
5 and 15		386	97	1	0.2888	0.3977	
5 and 15	[3000,5000]	386	80	2	0.1679	0.2512	
5 and 15		386	116	3	0.2552	0.349	✓
5 and 15		386	93	4	0.1991	0.2868	
5 and 15	[5000,10000]	1507	358	1	0.2163	0.2599	
5 and 15		1507	358	2	0.2163	0.2599	
5 and 15		1507	370	3	0.224	0.2681	
5 and 15		1507	421	4	0.2568	0.3028	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 8	[0,50]	316	52	1	0.1254	0.2101	✓
6 and 8		316	35	2	0.0784	0.1507	✓
6 and 8		316	111	3	0.2987	0.4067	✓
6 and 8	[50,100]	316	118	4	0.3199	0.4293	✓
6 and 8		330	26	1	0.0521	0.1133	✓
6 and 8		330	27	2	0.0546	0.1168	✓
6 and 8		330	131	3	0.3438	0.452	✓
6 and 8		330	146	4	0.3881	0.4978	✓
6 and 8		821	79	1	0.0709	0.1185	✓
6 and 8	[100,200]	821	101	2	0.1013	0.1475	✓
6 and 8		821	201	3	0.3217	0.3863	✓
6 and 8		821	350	4	0.3922	0.481	✓
6 and 8	[200,500]	2326	291	1	0.1119	0.1292	✓
6 and 8		2326	317	2	0.1226	0.1509	✓
6 and 8		2326	769	3	0.3115	0.3500	✓
6 and 8		2326	940	4	0.3879	0.4283	✓
6 and 8		2508	417	1	0.1519	0.1814	✓
6 and 8		2508	381	2	0.1381	0.1666	✓
6 and 8	[500,1000]	2508	831	3	0.3129	0.3501	✓
6 and 8		2508	879	4	0.3318	0.3695	✓
6 and 8		2200	433	1	0.1804	0.2141	✓
6 and 8	[1000,2000]	2200	439	2	0.183	0.2169	✓
6 and 8		2200	722	3	0.3086	0.3452	✓
6 and 8		2200	606	4	0.2599	0.2946	✓
6 and 8	[2000,3000]	1288	271	1	0.1884	0.2337	✓
6 and 8		1288	275	2	0.1914	0.2269	✓
6 and 8		1288	379	3	0.2695	0.32	✓
6 and 8		1288	363	4	0.2574	0.3073	✓
6 and 8		1663	399	1	0.2196	0.2612	✓
6 and 8		1663	378	2	0.2074	0.2482	✓
6 and 8	[3000,5000]	1663	467	3	0.2593	0.3031	✓
6 and 8		1663	419	4	0.2312	0.2735	✓
6 and 8		2706	687	1	0.2376	0.2707	✓
6 and 8	[5000,10000]	2706	634	2	0.2184	0.2507	✓
6 and 8		2706	705	3	0.2441	0.2775	✓
6 and 8		2706	680	4	0.235	0.2681	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
6 and 13	[0,50]	364	38	1	0.0749	0.1405	✓
6 and 13		364	15	2	0.0232	0.0671	✓
6 and 13		364	144	3	0.345	0.4479	✓
6 and 13		364	167	4	0.4067	0.5115	✓
6 and 13		299	33	1	0.0772	0.1515	✓
6 and 13		299	19	2	0.0387	0.0975	✓
6 and 13	[50,100]	299	101	3	0.2844	0.3945	✓
6 and 13		299	146	4	0.4303	0.5405	✓
6 and 13		557	71	1	0.1009	0.158	✓
6 and 13	[100,200]	557	62	2	0.0864	0.1404	✓
6 and 13		557	130	3	0.2841	0.3638	✓
6 and 13		557	244	4	0.3964	0.4904	✓
6 and 13	[200,500]	1079	161	1	0.1285	0.1719	✓
6 and 13		1079	121	2	0.0939	0.1325	✓
6 and 13		1079	268	3	0.2228	0.2753	✓
6 and 13		1079	529	4	0.46	0.5206	✓
6 and 13		724	112	1	0.1291	0.1831	✓
6 and 13		724	102	2	0.1164	0.1684	✓
6 and 13	[500,1000]	724	182	3	0.2202	0.2846	✓
6 and 13		724	328	4	0.4163	0.4901	✓
6 and 13		629	122	1	0.1638	0.2271	✓
6 and 13	[1000,2000]	629	114	2	0.1519	0.2136	✓
6 and 13		629	150	3	0.2193	0.2687	✓
6 and 13		629	234	4	0.3341	0.4111	✓
6 and 13	[2000,3000]	416	90	1	0.1777	0.2591	✓
6 and 13		416	84	2	0.1644	0.2438	✓
6 and 13		416	90	3	0.1777	0.2591	✓
6 and 13		416	152	4	0.319	0.4137	✓
6 and 13		539	128	1	0.2021	0.2757	✓
6 and 13		539	123	2	0.1934	0.266	✓
6 and 13	[3000,5000]	539	108	3	0.1674	0.2367	✓
6 and 13		539	180	4	0.2942	0.3735	✓
6 and 13		1179	279	1	0.2126	0.262	✓
6 and 13	[5000,10000]	1179	315	2	0.2421	0.2934	✓
6 and 13		1179	238	3	0.1793	0.2259	✓
6 and 13		1179	347	4	0.2684	0.3212	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 9	[0,50]	3	0	1	0	0.7075	
8 and 9		3	1	2	0.0804	0.9677	
8 and 9		3	2	3	0.0943	0.9916	
8 and 9	[50,100]	3	0	4	0	0.7075	
8 and 9		5	1	1	0.0052	0.7164	
8 and 9		5	1	2	0.0051	0.7164	
8 and 9		5	1	3	0.0051	0.7164	
8 and 9		5	2	4	0.0527	0.8534	
8 and 9		21	0	1	0	0.1611	✓
8 and 9	[100,200]	21	6	2	0.1128	0.3218	
8 and 9		21	5	3	0.0822	0.4717	
8 and 9		21	10	4	0.2571	0.7022	✓
8 and 9	[200,500]	161	22	1	0.0677	0.1995	✓
8 and 9		161	32	2	0.1401	0.2809	✓
8 and 9		161	52	3	0.2515	0.4011	✓
8 and 9		161	55	4	0.2688	0.4284	✓
8 and 9		222	47	1	0.1599	0.2714	
8 and 9		222	46	2	0.1559	0.2605	
8 and 9	[500,1000]	222	56	3	0.1965	0.3147	
8 and 9		222	73	4	0.2674	0.3949	✓
8 and 9		278	59	1	0.1657	0.265	
8 and 9	[1000,2000]	278	73	2	0.2118	0.3185	
8 and 9		278	74	3	0.2152	0.3225	
8 and 9		278	72	4	0.2085	0.3147	
8 and 9	[2000,3000]	187	35	1	0.1131	0.2506	
8 and 9		187	44	2	0.1765	0.2627	
8 and 9		187	49	3	0.2006	0.3312	
8 and 9		187	59	4	0.2496	0.3873	
8 and 9		288	76	1	0.2139	0.3189	
8 and 9		288	44	2	0.1133	0.1996	✓
8 and 9	[3000,5000]	288	59	3	0.1598	0.2561	
8 and 9		288	109	4	0.3222	0.4372	✓
8 and 9		299	83	1	0.2276	0.3321	
8 and 9	[5000,10000]	299	87	2	0.2491	0.346	
8 and 9		299	60	3	0.1568	0.2506	
8 and 9		299	69	4	0.1842	0.2827	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 10	[0,50]	14	1	1	0.0018	0.2387	
8 and 10		14	2	2	0.0178	0.4281	
8 and 10		14	1	3	0.0018	0.3287	
8 and 10	[50,100]	14	10	4	0.419	0.9161	✓
8 and 10		10	1	1	0.0025	0.445	
8 and 10		10	0	2	0	0.3085	
8 and 10		10	5	3	0.1871	0.8129	
8 and 10		10	4	4	0.1216	0.7376	
8 and 10		40	6	1	0.0571	0.2984	
8 and 10	[100,200]	40	7	2	0.0734	0.3278	
8 and 10		40	11	3	0.146	0.4309	
8 and 10		40	16	4	0.2486	0.5667	
8 and 10	[200,500]	188	35	1	0.1332	0.2193	✓
8 and 10		188	30	2	0.1101	0.2199	✓
8 and 10		188	73	3	0.3182	0.4619	✓
8 and 10		188	50	4	0.2043	0.3352	
8 and 10		254	49	1	0.1463	0.2469	✓
8 and 10		254	49	2	0.1463	0.2469	✓
8 and 10	[500,1000]	254	74	3	0.2362	0.3514	
8 and 10		254	82	4	0.2657	0.3841	✓
8 and 10		295	57	1	0.1498	0.243	✓
8 and 10	[1000,2000]	295	57	2	0.1498	0.243	✓
8 and 10		295	96	3	0.2723	0.3621	✓
8 and 10		295	85	4	0.2371	0.3435	
8 and 10	[2000,3000]	233	55	1	0.1831	0.2959	
8 and 10		233	48	2	0.156	0.2637	
8 and 10		233	64	3	0.2184	0.3268	
8 and 10		233	66	4	0.2264	0.3458	
8 and 10		327	85	1	0.2122	0.311	
8 and 10		327	77	2	0.1905	0.2853	
8 and 10	[3000,5000]	327	57	3	0.1348	0.2199	✓
8 and 10		327	108	4	0.2795	0.3841	✓
8 and 10		469	118	1	0.2129	0.2934	
8 and 10	[5000,10000]	469	149	2	0.2758	0.362	✓
8 and 10		469	111	3	0.1989	0.2778	
8 and 10		469	91	4	0.1592	0.2328	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 13	[0,50]	235	26	1	0.0726	0.1579	✓
8 and 13		235	9	2	0.0177	0.0715	✓
8 and 13		235	95	3	0.3409	0.47	✓
8 and 13		235	105	4	0.3821	0.5128	✓
8 and 13	[50,100]	200	23	1	0.0743	0.1675	✓
8 and 13		200	7	2	0.0142	0.0708	✓
8 and 13		200	77	3	0.3172	0.4562	✓
8 and 13		200	93	4	0.3944	0.5367	✓
8 and 13	[100,200]	317	28	1	0.0595	0.1251	✓
8 and 13		317	26	2	0.0543	0.1179	✓
8 and 13		317	105	3	0.2796	0.386	✓
8 and 13		317	158	4	0.442	0.5548	✓
8 and 13	[200,500]	673	88	1	0.1062	0.1586	✓
8 and 13		673	71	2	0.0833	0.1312	✓
8 and 13		673	220	3	0.2955	0.3628	✓
8 and 13		673	294	4	0.399	0.4753	✓
8 and 13	[500,1000]	689	106	1	0.1277	0.183	✓
8 and 13		689	111	2	0.1344	0.1907	✓
8 and 13		689	186	3	0.2371	0.3048	✓
8 and 13		689	286	4	0.378	0.4529	✓
8 and 13	[1000,2000]	514	95	1	0.1522	0.2211	✓
8 and 13		514	96	2	0.154	0.2232	✓
8 and 13		514	164	3	0.1684	0.2397	✓
8 and 13		514	219	4	0.2829	0.4701	✓
8 and 13	[2000,3000]	327	81	1	0.2019	0.2882	✓
8 and 13		327	72	2	0.1705	0.2691	✓
8 and 13		327	53	3	0.1238	0.2066	✓
8 and 13		327	121	4	0.3176	0.4249	✓
8 and 13	[3000,5000]	409	91	1	0.1831	0.266	✓
8 and 13		409	96	2	0.1945	0.2789	✓
8 and 13		409	84	3	0.1673	0.2478	✓
8 and 13		409	138	4	0.2917	0.3855	✓
8 and 13	[5000,10000]	827	184	1	0.1946	0.2521	✓
8 and 13		827	191	2	0.2096	0.2612	✓
8 and 13		827	284	3	0.2176	0.2775	✓
8 and 13		827	248	4	0.2808	0.3524	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
9 and 10	[0,50]	4671	261	1	0.0495	0.0629	✓
9 and 10		4671	187	2	0.0346	0.0461	✓
9 and 10		4671	2077	3	0.4303	0.459	✓
9 and 10		4671	2146	4	0.4451	0.4729	✓
9 and 10	[50,100]	5707	264	1	0.041	0.052	✓
9 and 10		5707	282	2	0.0439	0.0554	✓
9 and 10		5707	2741	3	0.4673	0.4933	✓
9 and 10		5707	2420	4	0.4112	0.437	✓
9 and 10	[100,200]	9126	609	1	0.0617	0.072	✓
9 and 10		9126	674	2	0.0688	0.0794	✓
9 and 10		9126	2394	3	0.4712	0.4918	✓
9 and 10		9126	2449	4	0.365	0.388	✓
9 and 10	[200,500]	14708	1744	1	0.1134	0.1529	✓
9 and 10		14708	1771	2	0.1152	0.1558	✓
9 and 10		14708	6407	3	0.4276	0.4437	✓
9 and 10		14708	4786	4	0.3178	0.333	✓
9 and 10	[500,1000]	8737	1400	1	0.1627	0.1786	✓
9 and 10		8737	1407	2	0.1534	0.1609	✓
9 and 10		8737	3270	3	0.3641	0.3843	✓
9 and 10		8737	2570	4	0.2846	0.3038	✓
9 and 10	[1000,2000]	4234	835	1	0.1853	0.2005	✓
9 and 10		4234	872	2	0.1939	0.2185	✓
9 and 10		4234	1596	3	0.3166	0.3445	✓
9 and 10		4234	1131	4	0.2538	0.2807	✓
9 and 10	[2000,3000]	1342	294	1	0.1972	0.2422	✓
9 and 10		1342	284	2	0.19	0.2345	✓
9 and 10		1342	308	3	0.2722	0.3218	✓
9 and 10		1342	366	4	0.249	0.2974	✓
9 and 10	[3000,5000]	1602	380	1	0.2166	0.2588	✓
9 and 10		1602	351	2	0.1991	0.2402	✓
9 and 10		1602	415	3	0.2377	0.2812	✓
9 and 10		1602	456	4	0.2626	0.3074	✓
9 and 10	[5000,10000]	2258	612	1	0.2528	0.2809	✓
9 and 10		2258	564	2	0.232	0.2692	✓
9 and 10		2258	540	3	0.2217	0.2573	✓
9 and 10		2258	542	4	0.2223	0.2562	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
9 and 11	[0,50]	10	0	1	0	0.3095	
9 and 11		10	2	2	0.0252	0.5561	
9 and 11		10	5	3	0.1871	0.8239	
9 and 11		10	3	4	0.0667	0.6525	
9 and 11	[50,100]	12	0	1	0	0.2646	
9 and 11		12	3	2	0.0549	0.5719	
9 and 11		12	4	3	0.0992	0.6511	
9 and 11		12	5	4	0.1517	0.7233	
9 and 11	[100,200]	41	3	1	0.0354	0.1992	✓
9 and 11		41	5	2	0.0408	0.262	
9 and 11		41	19	3	0.3066	0.6258	✓
9 and 11		41	14	4	0.2008	0.5059	
9 and 11	[200,500]	158	27	1	0.1137	0.2088	✓
9 and 11		158	34	2	0.1520	0.2875	
9 and 11		158	54	3	0.2683	0.4213	✓
9 and 11		158	43	4	0.2045	0.3486	
9 and 11	[500,1000]	218	46	1	0.1508	0.2712	
9 and 11		218	47	2	0.1629	0.2762	
9 and 11		218	59	3	0.2129	0.3348	
9 and 11		218	66	4	0.2425	0.3684	
9 and 11	[1000,2000]	422	84	1	0.162	0.2404	✓
9 and 11		422	107	2	0.2127	0.2979	
9 and 11		422	122	3	0.2463	0.3349	
9 and 11		422	109	4	0.2172	0.3028	
9 and 11	[2000,3000]	366	90	1	0.2028	0.3013	
9 and 11		366	93	2	0.2103	0.3019	
9 and 11		366	71	3	0.1547	0.2583	✓
9 and 11		366	112	4	0.2592	0.356	✓
9 and 11	[3000,5000]	780	187	1	0.2102	0.2713	
9 and 11		780	207	2	0.2347	0.2979	
9 and 11		780	185	3	0.2077	0.2686	
9 and 11		780	201	4	0.2273	0.2899	
9 and 11	[5000,10000]	2520	561	1	0.2005	0.2394	✓
9 and 11		2520	710	2	0.2642	0.2998	✓
9 and 11		2520	581	3	0.2142	0.2475	✓
9 and 11		2520	668	4	0.2479	0.2828	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
9 and 12	[0,50]	485	49	1	0.0757	0.1314	✓
9 and 12		485	36	2	0.0323	0.0776	✓
9 and 12		485	185	3	0.328	0.4263	✓
9 and 12		485	225	4	0.4188	0.5094	✓
9 and 12	[50,100]	522	27	1	0.0344	0.0744	✓
9 and 12		522	41	2	0.057	0.105	✓
9 and 12		522	207	3	0.3543	0.44	✓
9 and 12		522	247	4	0.4296	0.517	✓
9 and 12	[100,200]	857	80	1	0.0747	0.1148	✓
9 and 12		857	78	2	0.0726	0.1123	✓
9 and 12		857	328	3	0.3501	0.4162	✓
9 and 12		857	371	4	0.3994	0.4668	✓
9 and 12	[200,500]	1700	230	1	0.1194	0.1525	✓
9 and 12		1700	208	2	0.1071	0.1389	✓
9 and 12		1700	527	3	0.2881	0.3526	✓
9 and 12		1700	735	4	0.4086	0.4563	✓
9 and 12	[500,1000]	1369	222	1	0.143	0.1828	✓
9 and 12		1369	214	2	0.1375	0.1767	✓
9 and 12		1369	276	3	0.1806	0.2229	✓
9 and 12		1369	657	4	0.4531	0.5068	✓
9 and 12	[1000,2000]	1064	211	1	0.1747	0.2236	✓
9 and 12		1064	187	2	0.1533	0.2	✓
9 and 12		1064	176	3	0.1436	0.1801	✓
9 and 12		1064	490	4	0.4303	0.491	✓
9 and 12	[2000,3000]	742	143	1	0.1609	0.223	✓
9 and 12		742	170	2	0.1993	0.2611	✓
9 and 12		742	153	3	0.1776	0.2371	✓
9 and 12		742	276	4	0.3371	0.4079	✓
9 and 12	[3000,5000]	997	216	1	0.1914	0.2435	✓
9 and 12		997	232	2	0.2068	0.2602	✓
9 and 12		997	280	3	0.2531	0.3099	✓
9 and 12		997	369	4	0.2425	0.2985	✓
9 and 12	[5000,10000]	2144	559	1	0.2422	0.2799	✓
9 and 12		2144	512	2	0.2309	0.2574	✓
9 and 12		2144	517	3	0.2232	0.2508	✓
9 and 12		2144	556	4	0.2409	0.2784	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
10 and 11	[0,50]	14	1	1	0.0018	0.5287	
10 and 11		14	0	2	0	0.2216	✓
10 and 11		14	6	3	0.1796	0.7114	
10 and 11		14	7	4	0.2304	0.7696	
10 and 11	[50,100]	25	1	1	0.001	0.2035	✓
10 and 11		25	3	2	0.0255	0.3122	
10 and 11		25	14	3	0.3493	0.756	✓
10 and 11		25	7	4	0.1207	0.4939	
10 and 11	[100,200]	60	8	1	0.0594	0.2459	✓
10 and 11		60	10	2	0.0829	0.2852	
10 and 11		60	30	3	0.3681	0.6119	✓
10 and 11		60	12	4	0.1078	0.3223	
10 and 11	[200,500]	152	27	1	0.1204	0.2478	✓
10 and 11		152	31	2	0.143	0.2768	
10 and 11		152	41	3	0.201	0.3476	
10 and 11		152	53	4	0.2733	0.4301	✓
10 and 11	[500,1000]	206	38	1	0.134	0.2443	✓
10 and 11		206	50	2	0.1858	0.3072	
10 and 11		206	42	3	0.1511	0.2654	
10 and 11		206	76	4	0.3029	0.4388	✓
10 and 11	[1000,2000]	384	80	1	0.1668	0.2524	
10 and 11		384	111	2	0.2442	0.3372	
10 and 11		384	83	3	0.175	0.3007	✓
10 and 11		384	110	4	0.2417	0.3245	
10 and 11	[2000,3000]	453	93	1	0.169	0.2455	✓
10 and 11		453	107	2	0.1978	0.2781	
10 and 11		453	96	3	0.1752	0.2525	
10 and 11		453	157	4	0.3028	0.3924	✓
10 and 11	[3000,5000]	936	210	1	0.198	0.2525	
10 and 11		936	249	2	0.238	0.2956	
10 and 11		936	234	3	0.2225	0.279	
10 and 11		936	243	4	0.2318	0.289	
10 and 11	[5000,10000]	2545	549	1	0.1999	0.2322	✓
10 and 11		2545	742	2	0.2739	0.3096	✓
10 and 11		2545	587	3	0.2144	0.2475	✓
10 and 11		2545	667	4	0.2451	0.2796	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
10 and 12	[0,50]	9	0	1	0	0.5263	
10 and 12		9	2	2	0.0281	0.6001	
10 and 12		9	3	3	0.0749	0.7007	
10 and 12		9	4	4	0.137	0.788	
10 and 12	[50,100]	21	2	1	0.0117	0.3038	
10 and 12		21	2	2	0.0117	0.3038	
10 and 12		21	10	3	0.2571	0.7022	✓
10 and 12		21	7	4	0.1459	0.5697	
10 and 12	[100,200]	46	1	1	6e-04	0.1153	✓
10 and 12		46	5	2	0.0082	0.2357	✓
10 and 12		46	24	3	0.3695	0.6711	✓
10 and 12		46	16	4	0.2135	0.5025	
10 and 12	[200,500]	133	17	1	0.0793	0.1967	✓
10 and 12		133	19	2	0.0883	0.2141	✓
10 and 12		133	47	3	0.2725	0.4409	✓
10 and 12		133	50	4	0.2935	0.464	✓
10 and 12	[500,1000]	124	19	1	0.0948	0.2289	✓
10 and 12		124	35	2	0.2051	0.3701	
10 and 12		124	36	3	0.2123	0.3786	
10 and 12		124	34	4	0.1979	0.3615	
10 and 12	[1000,2000]	210	29	1	0.0945	0.1923	✓
10 and 12		210	39	2	0.2213	0.3469	
10 and 12		210	68	3	0.261	0.3916	✓
10 and 12		210	54	4	0.1995	0.3218	
10 and 12	[2000,3000]	188	35	1	0.1332	0.2493	✓
10 and 12		188	48	2	0.1946	0.3239	
10 and 12		188	61	3	0.2501	0.3964	✓
10 and 12		188	44	4	0.1755	0.3012	
10 and 12	[3000,5000]	351	67	1	0.1511	0.236	✓
10 and 12		351	85	2	0.1983	0.2905	
10 and 12		351	98	3	0.2329	0.3293	
10 and 12		351	101	4	0.2409	0.3382	
10 and 12	[5000,10000]	416	106	1	0.2136	0.2995	
10 and 12		416	118	2	0.2408	0.3296	
10 and 12		416	106	3	0.2136	0.2995	
10 and 12		416	86	4	0.1688	0.2499	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
10 and 13	[0,50]	613	48	1	0.0593	0.1025	✓
10 and 13		613	31	2	0.0386	0.071	✓
10 and 13		613	278	3	0.4136	0.4939	✓
10 and 13		613	256	4	0.3782	0.4728	✓
10 and 13	[50,100]	550	28	1	0.0341	0.0727	✓
10 and 13		550	32	2	0.0401	0.0811	✓
10 and 13		550	245	3	0.4034	0.4881	✓
10 and 13		550	245	4	0.4034	0.4881	✓
10 and 13	[100,200]	952	78	1	0.0653	0.1012	✓
10 and 13		952	81	2	0.0681	0.1046	✓
10 and 13		952	368	3	0.3555	0.4183	✓
10 and 13		952	425	4	0.4145	0.4787	✓
10 and 13	[200,500]	1827	218	1	0.1008	0.1451	✓
10 and 13		1827	231	2	0.1115	0.1426	✓
10 and 13		1827	497	3	0.2517	0.281	✓
10 and 13		1827	881	4	0.4591	0.5054	✓
10 and 13	[500,1000]	1645	259	1	0.1286	0.1623	✓
10 and 13		1645	259	2	0.1402	0.176	✓
10 and 13		1645	399	3	0.222	0.264	
10 and 13		1645	748	4	0.4304	0.4791	✓
10 and 13	[1000,2000]	1417	278	1	0.1758	0.2178	✓
10 and 13		1417	269	2	0.1697	0.2112	✓
10 and 13		1417	269	3	0.1697	0.2112	✓
10 and 13		1417	601	4	0.3982	0.4504	✓
10 and 13	[2000,3000]	980	174	1	0.1541	0.2029	✓
10 and 13		980	213	2	0.1919	0.2445	✓
10 and 13		980	231	3	0.2095	0.2636	
10 and 13		980	362	4	0.3391	0.4005	✓
10 and 13	[3000,5000]	1358	285	1	0.1885	0.2325	✓
10 and 13		1358	335	2	0.224	0.2705	
10 and 13		1358	380	3	0.2561	0.3045	✓
10 and 13		1358	358	4	0.2404	0.2879	
10 and 13	[5000,10000]	2605	680	1	0.2443	0.2784	
10 and 13		2605	619	2	0.2214	0.2544	
10 and 13		2605	662	3	0.2375	0.2713	
10 and 13		2605	644	4	0.2398	0.2643	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
13 and 15	[0,50]	289	32	1	0.077	0.1527	✓
13 and 15		289	24	2	0.0520	0.112	✓
13 and 15		289	101	3	0.2946	0.4075	✓
13 and 15		289	132	4	0.3883	0.5161	✓
13 and 15	[50,100]	202	19	1	0.0576	0.143	✓
13 and 15		202	14	2	0.0384	0.1136	✓
13 and 15		202	81	3	0.3328	0.4721	✓
13 and 15		202	88	4	0.3662	0.507	✓
13 and 15	[100,200]	228	25	1	0.0722	0.1576	✓
13 and 15		228	29	2	0.0869	0.1775	✓
13 and 15		228	75	3	0.2684	0.3941	✓
13 and 15		228	99	4	0.3699	0.5012	✓
13 and 15	[200,500]	364	63	1	0.1326	0.2159	✓
13 and 15		364	65	2	0.1406	0.2119	✓
13 and 15		364	151	3	0.2627	0.4673	✓
13 and 15		364	85	4	0.191	0.2884	
13 and 15	[500,1000]	453	80	1	0.1426	0.2149	✓
13 and 15		453	103	2	0.1896	0.2688	
13 and 15		453	142	3	0.271	0.3584	✓
13 and 15		453	128	4	0.2415	0.3265	
13 and 15	[1000,2000]	785	146	1	0.1594	0.215	✓
13 and 15		785	198	2	0.2222	0.2841	
13 and 15		785	234	3	0.2663	0.3314	✓
13 and 15		785	207	4	0.2332	0.296	
13 and 15	[2000,3000]	746	182	1	0.2135	0.2764	
13 and 15		746	188	2	0.2213	0.2848	
13 and 15		746	207	3	0.2426	0.3111	
13 and 15		746	169	4	0.197	0.2583	
13 and 15	[3000,5000]	1469	381	1	0.2571	0.2826	
13 and 15		1469	392	2	0.2444	0.2903	
13 and 15		1469	392	3	0.2444	0.2903	
13 and 15		1469	304	4	0.1865	0.2286	✓
13 and 15	[5000,10000]	2843	792	1	0.2622	0.2955	✓
13 and 15		2843	711	2	0.2343	0.2664	
13 and 15		2843	832	3	0.276	0.3098	✓
13 and 15		2843	508	4	0.1648	0.1933	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
14 and 15	[0,50]	92	17	1	0.1115	0.2793	
14 and 15		92	13	2	0.0774	0.2295	✓
14 and 15		92	26	3	0.1936	0.3861	
14 and 15		92	36	4	0.2912	0.4996	✓
14 and 15	[50,100]	51	8	1	0.0702	0.2859	
14 and 15		51	3	2	0.0123	0.1624	✓
14 and 15		51	17	3	0.2076	0.4792	
14 and 15		51	23	4	0.2113	0.5066	✓
14 and 15	[100,200]	55	4	1	0.0202	0.1759	✓
14 and 15		55	6	2	0.0411	0.2225	✓
14 and 15		55	22	3	0.2702	0.5409	✓
14 and 15		55	23	4	0.2865	0.5589	✓
14 and 15	[200,300]	106	12	1	0.0599	0.1894	✓
14 and 15		106	12	2	0.0599	0.1894	✓
14 and 15		106	50	3	0.374	0.5711	✓
14 and 15		106	32	4	0.2165	0.3987	
14 and 15	[300,1000]	109	14	1	0.072	0.2061	✓
14 and 15		109	27	2	0.17	0.3296	
14 and 15		109	26	3	0.2423	0.4209	
14 and 15		109	32	4	0.2102	0.3885	
14 and 15	[1000,2000]	185	28	1	0.103	0.2113	✓
14 and 15		185	49	2	0.2028	0.3346	
14 and 15		185	60	3	0.2575	0.3969	✓
14 and 15		185	48	4	0.1979	0.3289	
14 and 15	[2000,3000]	215	43	1	0.1487	0.2598	
14 and 15		215	53	2	0.1904	0.3097	
14 and 15		215	78	3	0.2985	0.4309	✓
14 and 15		215	41	4	0.1405	0.2497	✓
14 and 15	[3000,5000]	269	52	1	0.1479	0.2456	✓
14 and 15		269	70	2	0.2488	0.317	
14 and 15		269	52	3	0.1479	0.2456	✓
14 and 15		269	95	4	0.2961	0.4135	✓
14 and 15	[5000,10000]	1333	310	1	0.2101	0.2562	
14 and 15		1333	299	2	0.2022	0.2477	✓
14 and 15		1333	365	3	0.25	0.2986	
14 and 15		1333	359	4	0.2407	0.294	

### 6.3. 30-min pairs

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 4	[0,50]	3	0	1	0	0.7076	
1 and 4		3	1	2	0.0084	0.9057	
1 and 4		3	1	3	0.0084	0.9057	
1 and 4		3	1	4	0.0084	0.9057	
1 and 4	[50,100]	10	2	1	0.0252	0.5561	
1 and 4		10	2	2	0.0252	0.5561	
1 and 4		10	3	3	0.0607	0.6525	
1 and 4		10	3	4	0.0607	0.6525	
1 and 4	[100,200]	22	6	1	0.1073	0.5022	
1 and 4		22	2	2	0.0112	0.2616	
1 and 4		22	9	3	0.2071	0.6365	
1 and 4		22	5	4	0.0782	0.4537	
1 and 4	[200,500]	132	16	1	0.0709	0.1884	✓
1 and 4		132	23	2	0.1138	0.2499	✓
1 and 4		132	51	3	0.3029	0.475	✓
1 and 4		132	42	4	0.2399	0.4049	
1 and 4	[500,1000]	166	22	1	0.085	0.1938	✓
1 and 4		166	42	2	0.1888	0.3262	
1 and 4		166	53	3	0.2492	0.396	
1 and 4		166	49	4	0.227	0.3708	
1 and 4	[1000,2000]	189	47	1	0.1868	0.3166	
1 and 4		189	49	2	0.1984	0.3279	
1 and 4		189	54	3	0.2225	0.3558	
1 and 4		189	39	4	0.151	0.2711	
1 and 4	[2000,3000]	169	48	1	0.2174	0.3584	
1 and 4		169	42	2	0.1854	0.3207	
1 and 4		169	52	3	0.2391	0.3832	
1 and 4		169	27	4	0.108	0.2239	✓
1 and 4	[3000,5000]	377	106	1	0.2363	0.3295	
1 and 4		377	91	2	0.199	0.2878	
1 and 4		377	88	3	0.1916	0.2795	
1 and 4		377	92	4	0.2013	0.2966	
1 and 4	[5000,10000]	933	277	1	0.2163	0.2722	
1 and 4		933	198	2	0.1804	0.2399	✓
1 and 4		933	263	3	0.2532	0.3119	✓
1 and 4		933	245	4	0.2346	0.2921	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
1 and 6	[0,50]	176	17	1	0.0573	0.1501	✓
1 and 6		176	10	2	0.0276	0.102	✓
1 and 6		176	78	3	0.3685	0.5398	✓
1 and 6		176	71	4	0.3303	0.4799	✓
1 and 6	[50,100]	357	33	1	0.0645	0.1274	✓
1 and 6		357	20	2	0.0346	0.0852	✓
1 and 6		357	181	3	0.4539	0.56	✓
1 and 6		357	133	4	0.2954	0.3964	✓
1 and 6	[100,200]	873	70	1	0.063	0.1002	✓
1 and 6		873	42	2	0.0349	0.0645	✓
1 and 6		873	451	3	0.4829	0.5502	✓
1 and 6		873	310	4	0.3233	0.3879	✓
1 and 6	[200,500]	1066	112	1	0.0873	0.125	✓
1 and 6		1066	68	2	0.0499	0.0802	✓
1 and 6		1066	517	3	0.4546	0.5355	✓
1 and 6		1066	369	4	0.3176	0.3756	✓
1 and 6	[500,1000]	252	36	1	0.1021	0.1922	✓
1 and 6		252	21	2	0.0523	0.1246	✓
1 and 6		252	113	3	0.396	0.5121	✓
1 and 6		252	83	4	0.2679	0.367	✓
1 and 6	[1000,2000]	86	22	1	0.1678	0.3613	
1 and 6		86	10	2	0.0572	0.2035	✓
1 and 6		86	29	3	0.2388	0.4472	
1 and 6		86	25	4	0.1978	0.2986	
1 and 6	[2000,3000]	20	7	1	0.1539	0.5922	
1 and 6		20	2	2	0.0123	0.317	
1 and 6		20	5	3	0.0866	0.491	
1 and 6		20	6	4	0.1189	0.5428	
1 and 6	[3000,5000]	39	6	1	0.0586	0.3053	
1 and 6		39	6	2	0.0586	0.3053	
1 and 6		39	7	3	0.0754	0.3353	
1 and 6		39	20	4	0.2478	0.6758	✓
1 and 6	[5000,10000]	39	13	1	0.1969	0.5022	
1 and 6		39	12	2	0.1702	0.4757	
1 and 6		39	12	3	0.1702	0.4757	
1 and 6		39	2	4	0.0063	0.1732	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
2 and 3	[0,50]	12	1	1	0.0021	0.3848	
2 and 3		12	2	2	0.0209	0.4843	
2 and 3		12	5	3	0.1517	0.7233	
2 and 3		12	4	4	0.0992	0.6511	
2 and 3	[50,100]	14	2	1	0.0178	0.4281	
2 and 3		14	1	2	0.0018	0.3387	
2 and 3		14	8	3	0.2886	0.8214	✓
2 and 3		14	3	4	0.0466	0.508	
2 and 3	[100,200]	42	5	1	0.0398	0.2563	
2 and 3		42	6	2	0.0543	0.2854	
2 and 3		42	17	3	0.2263	0.5672	✓
2 and 3		42	14	4	0.1957	0.4975	
2 and 3	[200,500]	135	23	1	0.1112	0.2446	✓
2 and 3		135	22	2	0.105	0.2363	✓
2 and 3		135	42	3	0.2343	0.3664	
2 and 3		135	48	4	0.2751	0.4425	✓
2 and 3	[500,1000]	266	53	1	0.153	0.2524	
2 and 3		266	34	2	0.0902	0.174	✓
2 and 3		266	57	3	0.1665	0.3685	
2 and 3		266	122	4	0.3976	0.5206	✓
2 and 3	[1000,2000]	498	114	1	0.1927	0.2684	
2 and 3		498	85	2	0.1387	0.2067	✓
2 and 3		498	94	3	0.1533	0.2259	✓
2 and 3		498	205	4	0.3893	0.4563	✓
2 and 3	[2000,3000]	455	121	1	0.2259	0.3091	
2 and 3		455	109	2	0.203	0.2815	
2 and 3		455	101	3	0.1846	0.263	
2 and 3		455	124	4	0.2321	0.3159	
2 and 3	[3000,5000]	1055	302	1	0.2591	0.3146	✓
2 and 3		1055	250	2	0.2116	0.2638	
2 and 3		1055	244	3	0.2061	0.2579	
2 and 3		1055	259	4	0.2198	0.2726	
2 and 3	[5000,10000]	2302	567	1	0.2393	0.2763	
2 and 3		2302	470	2	0.1965	0.2312	✓
2 and 3		2302	522	3	0.2194	0.2554	
2 and 3		2302	643	4	0.2731	0.3115	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
2 and 6	[0,50]	6	0	1	0	0.4203	
2 and 6		6	2	2	0.0433	0.7772	
2 and 6		6	1	3	0.0042	0.6412	
2 and 6		6	3	4	0.1181	0.8819	
2 and 6	[50,100]	20	3	1	0.0321	0.3789	
2 and 6		20	2	2	0.0123	0.317	
2 and 6		20	6	3	0.1189	0.5428	
2 and 6		20	9	4	0.2306	0.6847	
2 and 6	[100,200]	40	5	1	0.0419	0.268	
2 and 6		40	4	2	0.0279	0.2366	✓
2 and 6		40	12	3	0.1596	0.4653	
2 and 6		40	19	4	0.2151	0.6287	✓
2 and 6	[200,500]	98	19	1	0.121	0.2861	
2 and 6		98	21	2	0.1378	0.3087	
2 and 6		98	20	3	0.1293	0.2974	
2 and 6		98	38	4	0.291	0.4915	✓
2 and 6	[500,1000]	149	32	1	0.1518	0.2894	
2 and 6		149	29	2	0.1344	0.2674	
2 and 6		149	33	3	0.1576	0.2967	
2 and 6		149	55	4	0.2946	0.452	✓
2 and 6	[1000,2000]	324	71	1	0.1753	0.2682	
2 and 6		324	86	2	0.2181	0.3171	
2 and 6		324	65	3	0.1584	0.2484	✓
2 and 6		324	102	4	0.2646	0.3985	
2 and 6	[2000,3000]	410	103	1	0.2099	0.2961	
2 and 6		410	100	2	0.2031	0.2885	
2 and 6		410	99	3	0.2008	0.2859	
2 and 6		410	108	4	0.2214	0.3089	
2 and 6	[3000,5000]	1003	273	1	0.2448	0.3009	
2 and 6		1003	234	2	0.2074	0.2607	
2 and 6		1003	210	3	0.1846	0.2359	✓
2 and 6		1003	286	4	0.2574	0.3142	✓
2 and 6	[5000,10000]	2266	527	1	0.2153	0.2505	
2 and 6		2266	540	2	0.2209	0.2564	
2 and 6		2266	580	3	0.2381	0.2745	
2 and 6		2266	619	4	0.2549	0.292	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
3 and 7	[0,50]	427	62	1	0.1132	0.3922	✓
3 and 7		427	33	2	0.0528	0.1966	✓
3 and 7		427	131	3	0.2634	0.3529	✓
3 and 7		427	201	4	0.4226	0.5183	✓
3 and 7	[50,100]	533	41	1	0.0558	0.1029	✓
3 and 7		533	34	2	0.0446	0.088	✓
3 and 7		533	203	3	0.3395	0.4236	✓
3 and 7		533	255	4	0.4353	0.5218	✓
3 and 7	[100,200]	1032	68	1	0.0515	0.0828	✓
3 and 7		1032	66	2	0.0498	0.0806	✓
3 and 7		1032	401	3	0.3567	0.4191	✓
3 and 7		1032	497	4	0.4507	0.5126	✓
3 and 7	[200,500]	2200	222	1	0.0886	0.1443	✓
3 and 7		2200	219	2	0.0873	0.1128	✓
3 and 7		2200	847	3	0.3646	0.4057	✓
3 and 7		2200	912	4	0.3839	0.4355	✓
3 and 7	[500,1000]	1615	259	1	0.1428	0.1792	✓
3 and 7		1615	247	2	0.1357	0.1714	✓
3 and 7		1615	533	3	0.3071	0.3536	✓
3 and 7		1615	576	4	0.3333	0.3896	✓
3 and 7	[1000,2000]	1377	291	1	0.19	0.2339	✓
3 and 7		1377	258	2	0.1671	0.209	✓
3 and 7		1377	435	3	0.2914	0.3412	✓
3 and 7		1377	393	4	0.3617	0.391	✓
3 and 7	[2000,3000]	823	220	1	0.2273	0.299	
3 and 7		823	195	2	0.2083	0.2675	
3 and 7		823	212	3	0.328	0.3889	
3 and 7		823	196	4	0.2694	0.2688	
3 and 7	[3000,5000]	1462	407	1	0.2555	0.3021	✓
3 and 7		1462	330	2	0.2045	0.248	✓
3 and 7		1462	378	3	0.2363	0.2818	
3 and 7		1462	347	4	0.2157	0.26	
3 and 7	[5000,10000]	2279	626	1	0.2564	0.2935	✓
3 and 7		2279	459	2	0.1851	0.2185	
3 and 7		2279	613	3	0.2509	0.2877	✓
3 and 7		2279	581	4	0.2371	0.2734	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
3 and 7	[0,50]	6	0	1	0	0.4309	
3 and 7		6	1	2	0.0042	0.6412	
3 and 7		6	2	3	0.0433	0.7772	
3 and 7		6	3	4	0.1181	0.8819	
3 and 7	[50,100]	8	0	1	0	0.3694	
3 and 7		8	1	2	0.0032	0.5265	
3 and 7		8	2	3	0.0319	0.6509	
3 and 7		8	5	4	0.2449	0.9148	
3 and 7	[100,200]	28	1	1	9e-04	0.1835	✓
3 and 7		28	7	2	0.1069	0.4487	
3 and 7		28	11	3	0.215	0.5942	
3 and 7		28	9	4	0.1588	0.5235	
3 and 7	[200,500]	104	22	1	0.1376	0.3036	
3 and 7		104	21	2	0.1296	0.2959	
3 and 7		104	27	3	0.2643	0.4557	✓
3 and 7		104	24	4	0.1528	0.3236	
3 and 7	[500,1000]	240	43	1	0.1328	0.2336	✓
3 and 7		240	47	2	0.1476	0.2518	
3 and 7		240	107	3	0.3819	0.5111	✓
3 and 7		240	43	4	0.1328	0.2336	✓
3 and 7	[1000,2000]	535	116	1	0.1826	0.2542	
3 and 7		535	107	2	0.1609	0.2364	✓
3 and 7		535	183	3	0.3019	0.384	✓
3 and 7		535	129	4	0.2055	0.2797	
3 and 7	[2000,3000]	541	121	1	0.1892	0.2613	
3 and 7		541	137	2	0.2171	0.2921	
3 and 7		541	176	3	0.296	0.3666	✓
3 and 7		541	107	4	0.165	0.2339	✓
3 and 7	[3000,5000]	968	244	1	0.225	0.2807	
3 and 7		968	222	2	0.2032	0.2571	
3 and 7		968	236	3	0.217	0.2721	
3 and 7		968	266	4	0.2469	0.3041	
3 and 7	[5000,10000]	1931	487	1	0.233	0.2722	
3 and 7		1931	404	2	0.1913	0.2281	✓
3 and 7		1931	560	3	0.2698	0.3108	✓
3 and 7		1931	480	4	0.2294	0.2685	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
4 and 6	[0,50]	27	3	1	0.0235	0.2946	
4 and 6		27	5	2	0.063	0.3889	
4 and 6		27	10	3	0.134	0.5763	
4 and 6		27	9	4	0.1652	0.5296	
4 and 6	[50,100]	74	12	1	0.0867	0.2661	
4 and 6		74	7	2	0.0389	0.1852	✓
4 and 6		74	32	3	0.3177	0.5528	✓
4 and 6		74	23	4	0.2083	0.429	
4 and 6	[100,200]	228	25	1	0.0722	0.1576	✓
4 and 6		228	28	2	0.0832	0.1728	✓
4 and 6		228	85	3	0.3099	0.491	✓
4 and 6		228	90	4	0.3206	0.614	✓
4 and 6	[200,500]	762	94	1	0.1008	0.1488	✓
4 and 6		762	101	2	0.1093	0.1587	✓
4 and 6		762	266	3	0.3152	0.3841	✓
4 and 6		762	301	4	0.3601	0.4307	✓
4 and 6	[500,1000]	933	166	1	0.1539	0.204	✓
4 and 6		933	162	2	0.1499	0.1995	✓
4 and 6		933	324	3	0.3167	0.3788	✓
4 and 6		933	281	4	0.2719	0.3317	✓
4 and 6	[1000,2000]	1057	235	1	0.1976	0.2486	✓
4 and 6		1057	236	2	0.1985	0.2496	✓
4 and 6		1057	294	3	0.2513	0.3062	✓
4 and 6		1057	292	4	0.2495	0.3043	
4 and 6	[2000,3000]	946	242	1	0.2283	0.2849	✓
4 and 6		946	206	2	0.1918	0.2454	✓
4 and 6		946	258	3	0.2446	0.3023	
4 and 6		946	240	4	0.2262	0.2827	
4 and 6	[3000,5000]	1656	458	1	0.2551	0.2988	✓
4 and 6		1656	378	2	0.2082	0.2492	✓
4 and 6		1656	389	3	0.2147	0.2561	
4 and 6		1656	431	4	0.2393	0.2821	
4 and 6	[5000,10000]	3178	943	1	0.2564	0.2862	✓
4 and 6		3178	781	2	0.2108	0.2588	✓
4 and 6		3178	925	3	0.2513	0.281	✓
4 and 6		3178	829	4	0.2243	0.2529	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 12	[0,50]	6	2	1	0.0433	0.7772	
8 and 12		6	0	2	0	0.4593	
8 and 12		6	1	3	0.0042	0.6412	
8 and 12		6	3	4	0.1181	0.8819	
8 and 12	[50,100]	11	1	1	0.0023	0.4128	
8 and 12		11	0	2	0	0.2849	
8 and 12		11	5	3	0.1075	0.7602	
8 and 12		11	5	4	0.1075	0.7602	
8 and 12	[100,200]	39	6	1	0.0586	0.3053	
8 and 12		39	6	2	0.0586	0.3053	
8 and 12		39	13	3	0.1009	0.5022	
8 and 12		39	14	4	0.112	0.5282	
8 and 12	[200,500]	142	18	1	0.0769	0.1929	✓
8 and 12		142	15	2	0.0603	0.1682	
8 and 12		142	52	3	0.287	0.4511	✓
8 and 12		142	57	4	0.3201	0.4869	✓
8 and 12	[500,1000]	254	35	1	0.0979	0.1864	✓
8 and 12		254	53	2	0.1604	0.2639	
8 and 12		254	100	3	0.3332	0.4567	✓
8 and 12		254	66	4	0.267	0.3184	
8 and 12	[1000,2000]	455	100	1	0.1826	0.2607	
8 and 12		455	95	2	0.1723	0.2491	✓
8 and 12		455	148	3	0.2834	0.3795	✓
8 and 12		455	112	4	0.2072	0.2884	
8 and 12	[2000,3000]	430	91	1	0.174	0.2533	
8 and 12		430	103	2	0.1999	0.2828	
8 and 12		430	100	3	0.1934	0.2754	
8 and 12		430	136	4	0.2726	0.3625	✓
8 and 12	[3000,5000]	873	220	1	0.2235	0.2822	
8 and 12		873	220	2	0.2235	0.2822	
8 and 12		873	207	3	0.2093	0.2608	
8 and 12		873	226	4	0.2301	0.2903	
8 and 12	[5000,10000]	2630	652	1	0.2315	0.2649	
8 and 12		2630	701	2	0.2497	0.2839	
8 and 12		2630	647	3	0.2296	0.2629	
8 and 12		2630	630	4	0.2233	0.2563	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 13	[0,50]	3	0	1	0	0.7076	
8 and 13		3	1	2	0.0084	0.9677	
8 and 13		3	1	3	0.0084	0.9677	
8 and 13		3	1	4	0.0084	0.9677	
8 and 13	[50,100]	11	1	1	0.0022	0.4128	
8 and 13		11	4	2	0.1093	0.6021	
8 and 13		11	6	3	0.2338	0.8325	
8 and 13		11	0	4	0	0.2849	
8 and 13	[100,200]	31	4	1	0.0363	0.2983	
8 and 13		31	4	2	0.0363	0.2983	
8 and 13		31	10	3	0.1668	0.5137	
8 and 13		31	13	4	0.2455	0.6092	
8 and 13	[200,500]	111	16	1	0.0847	0.2235	✓
8 and 13		111	22	2	0.1286	0.2846	
8 and 13		111	36	3	0.2285	0.4197	
8 and 13		111	37	4	0.2467	0.4261	
8 and 13	[500,1000]	169	23	1	0.0882	0.1972	✓
8 and 13		169	37	2	0.1591	0.2889	
8 and 13		169	65	3	0.3109	0.4624	✓
8 and 13		169	44	4	0.196	0.3333	
8 and 13	[1000,2000]	428	85	1	0.1618	0.2396	✓
8 and 13		428	85	2	0.1618	0.2396	✓
8 and 13		428	138	3	0.2783	0.369	✓
8 and 13		428	120	4	0.2383	0.3255	
8 and 13	[2000,3000]	369	76	1	0.1658	0.2509	
8 and 13		369	105	2	0.2291	0.3325	
8 and 13		369	95	3	0.2136	0.3053	
8 and 13		369	93	4	0.2085	0.2996	
8 and 13	[3000,5000]	885	212	1	0.2118	0.2694	
8 and 13		885	210	2	0.2096	0.2667	
8 and 13		885	228	3	0.2291	0.2878	
8 and 13		885	235	4	0.2367	0.2959	
8 and 13	[5000,10000]	2543	645	1	0.2368	0.271	
8 and 13		2543	654	2	0.2403	0.2746	
8 and 13		2543	587	3	0.2146	0.2477	✓
8 and 13		2543	657	4	0.2414	0.2758	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
8 and 14	[0,50]	50	9	1	0.0856	0.3144	
8 and 14		50	1	2	0.04	0.1965	✓
8 and 14		50	22	3	0.2999	0.5875	✓
8 and 14		50	18	4	0.2292	0.5081	
8 and 14	[50,100]	92	6	1	0.0243	0.1366	✓
8 and 14		92	9	2	0.0437	0.1776	✓
8 and 14		92	45	3	0.3834	0.5956	✓
8 and 14		92	32	4	0.2515	0.4543	✓
8 and 14	[100,200]	208	18	1	0.0521	0.1333	✓
8 and 14		208	20	2	0.0597	0.1446	✓
8 and 14		208	100	3	0.4112	0.5509	✓
8 and 14		208	70	4	0.2727	0.4051	✓
8 and 14	[200,500]	638	50	1	0.0567	0.1302	✓
8 and 14		638	68	2	0.0827	0.1332	✓
8 and 14		638	310	3	0.4465	0.5254	✓
8 and 14		638	210	4	0.2928	0.3871	✓
8 and 14	[500,1000]	762	108	1	0.1177	0.1695	✓
8 and 14		762	118	2	0.1299	0.1825	✓
8 and 14		762	297	3	0.355	0.4254	✓
8 and 14		762	239	4	0.2868	0.3479	✓
8 and 14	[1000,2000]	981	191	1	0.1704	0.2209	✓
8 and 14		981	189	2	0.1684	0.2188	✓
8 and 14		981	307	3	0.284	0.343	✓
8 and 14		981	294	4	0.2712	0.3294	✓
8 and 14	[2000,3000]	744	171	1	0.2001	0.2618	
8 and 14		744	142	2	0.1602	0.221	✓
8 and 14		744	199	3	0.236	0.3008	
8 and 14		744	232	4	0.2787	0.3405	✓
8 and 14	[3000,5000]	1394	361	1	0.2361	0.2828	
8 and 14		1394	326	2	0.2119	0.257	
8 and 14		1394	364	3	0.2382	0.285	
8 and 14		1394	343	4	0.2236	0.2695	
8 and 14	[5000,10000]	3395	908	1	0.2526	0.2827	✓
8 and 14		3395	767	2	0.2119	0.2404	✓
8 and 14		3395	798	3	0.2399	0.2497	✓
8 and 14		3395	922	4	0.2567	0.2869	✓



Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
11 and 14	[0,50]	9	1	1	0.0028	0.4825	
11 and 14		9	2	2	0.0281	0.6003	
11 and 14		9	4	3	0.137	0.788	
11 and 14		9	2	4	0.0281	0.6003	
11 and 14	[50,100]	6	2	1	0.0433	0.7772	
11 and 14		6	0	2	0	0.4503	
11 and 14		6	2	3	0.0433	0.7772	
11 and 14		6	2	4	0.0433	0.7772	
11 and 14	[100,200]	6	2	1	0.0433	0.7772	
11 and 14		6	0	2	0	0.4503	
11 and 14		6	2	3	0.0433	0.7772	
11 and 14		6	2	4	0.0433	0.7772	
11 and 14	[200,500]	91	9	1	0.0482	0.1795	✓
11 and 14		91	17	2	0.1128	0.2823	
11 and 14		91	33	3	0.2644	0.4704	✓
11 and 14		91	32	4	0.2544	0.4588	✓
11 and 14	[500,1000]	191	26	1	0.0909	0.1931	✓
11 and 14		191	39	2	0.1494	0.2684	
11 and 14		191	74	3	0.318	0.4605	✓
11 and 14		191	52	4	0.2105	0.3412	
11 and 14	[1000,2000]	510	93	1	0.1498	0.2187	✓
11 and 14		510	105	2	0.1716	0.2436	✓
11 and 14		510	147	3	0.2403	0.3297	✓
11 and 14		510	105	4	0.2821	0.366	✓
11 and 14	[2000,3000]	556	115	1	0.1739	0.2429	✓
11 and 14		556	141	2	0.2179	0.2619	
11 and 14		556	128	3	0.1958	0.2675	
11 and 14		556	172	4	0.2711	0.3496	✓
11 and 14	[3000,5000]	1016	275	1	0.2436	0.2991	
11 and 14		1016	279	2	0.2474	0.3032	
11 and 14		1016	222	3	0.1934	0.2452	✓
11 and 14		1016	240	4	0.2104	0.2636	
11 and 14	[5000,10000]	2285	693	1	0.2845	0.3226	✓
11 and 14		2285	825	2	0.2126	0.2476	✓
11 and 14		2285	540	3	0.219	0.2543	
11 and 14		2285	527	4	0.2135	0.2485	✓

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
12 and 13	[0,50]	9	0	1	0	0.5363	
12 and 13		9	4	2	0.137	0.788	
12 and 13		9	1	3	0.0028	0.4825	
12 and 13		9	4	4	0.137	0.788	
12 and 13	[50,100]	45	9	1	0.0558	0.346	
12 and 13		45	2	2	0.0054	0.1515	✓
12 and 13		45	17	3	0.2377	0.5346	
12 and 13		45	17	4	0.2377	0.5346	
12 and 13	[100,200]	126	15	1	0.0682	0.1887	✓
12 and 13		126	12	2	0.0592	0.1605	✓
12 and 13		126	50	3	0.3018	0.4878	✓
12 and 13		126	49	4	0.3034	0.4798	✓
12 and 13	[200,500]	437	52	1	0.0902	0.1551	✓
12 and 13		437	46	2	0.0781	0.1379	✓
12 and 13		437	138	3	0.2724	0.3617	✓
12 and 13		437	201	4	0.4125	0.508	✓
12 and 13	[500,1000]	669	106	1	0.1316	0.1884	✓
12 and 13		669	97	2	0.1192	0.174	✓
12 and 13		669	239	3	0.3209	0.3949	✓
12 and 13		669	227	4	0.3035	0.3766	✓
12 and 13	[1000,2000]	895	170	1	0.1647	0.2172	✓
12 and 13		895	172	2	0.1669	0.2195	✓
12 and 13		895	257	3	0.2577	0.318	✓
12 and 13		895	296	4	0.2999	0.3628	✓
12 and 13	[2000,3000]	701	147	1	0.1803	0.2417	✓
12 and 13		701	132	2	0.16	0.2192	✓
12 and 13		701	225	3	0.2865	0.3509	✓
12 and 13		701	197	4	0.248	0.3159	✓
12 and 13	[3000,5000]	1469	355	1	0.22	0.2644	
12 and 13		1469	340	2	0.2101	0.2539	
12 and 13		1469	377	3	0.2345	0.2798	
12 and 13		1469	397	4	0.2477	0.2937	
12 and 13	[5000,10000]	3441	948	1	0.2696	0.2908	✓
12 and 13		3441	886	2	0.2287	0.2576	
12 and 13		3441	884	3	0.2281	0.257	
12 and 13		3441	823	4	0.225	0.2538	

Pair	Distance interval (m)	Total	Count	Type	Lower CI	Upper CI	Sign. diff.
13 and 14	[0,50]	4	0	1	0	0.6025	
13 and 14		4	1	2	0.0063	0.6029	
13 and 14		4	2	3	0.0676	0.9324	
13 and 14		4	1	4	0.0063	0.8059	
13 and 14	[50,100]	9	1	1	0.0028	0.4825	
13 and 14		9	1	2	0.0028	0.4825	
13 and 14		9	3	3	0.0749	0.7007	
13 and 14		9	4	4	0.137	0.788	
13 and 14	[100,200]	28	3	1	0.0227	0.2821	
13 and 14		28	3	2	0.0227	0.2821	
13 and 14		28	11	3	0.215	0.5042	
13 and 14		28	11	4	0.215	0.5042	
13 and 14	[200,500]	86	9	1	0.049	0.1994	✓
13 and 14		86	12	2	0.0742	0.2011	✓
13 and 14		86	37	3	0.3239	0.5415	✓
13 and 14		86	28	4	0.2284	0.4352	
13 and 14	[500,1000]	151	28	1	0.1269	0.2567	
13 and 14		151	21	2	0.0882	0.2047	✓
13 and 14		151	54	3	0.2814	0.4396	✓
13 and 14		151	48	4	0.2446	0.3985	
13 and 14	[1000,2000]	314	68	1	0.1723	0.2663	
13 and 14		314	67	2	0.1694	0.2629	
13 and 14		314	78	3	0.2016	0.3	
13 and 14		314	101	4	0.2703	0.3764	✓
13 and 14	[2000,3000]	354	77	1	0.1756	0.2642	
13 and 14		354	88	2	0.2044	0.297	
13 and 14		354	77	3	0.1756	0.2642	
13 and 14		354	112	4	0.2682	0.3676	✓
13 and 14	[3000,5000]	758	174	1	0.2002	0.2612	
13 and 14		758	213	2	0.2492	0.3145	
13 and 14		758	156	3	0.1776	0.2364	✓
13 and 14		758	215	4	0.2518	0.3172	✓
13 and 14	[5000,10000]	2141	569	1	0.2471	0.285	
13 and 14		2141	554	2	0.2403	0.2779	
13 and 14		2141	503	3	0.2171	0.2535	
13 and 14		2141	515	4	0.2226	0.2592	