

Supplementary material

Marine turtles used to assist Austronesian sailors reaching new islands

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Table S1. Total area of the three oceans between 35N and 35S, and total area and percentage of islands in each ocean.

	Area (km ²)	%
Atlantic		
islands	312,800	0.62
ocean	50,267,000	
Indian		
islands	1,401,400	3.02
including Madagascar	594,200	1.30
including islands between Asia and Australia	718,400	1.57
ocean	44,943,400	
Pacific		
islands	2,488,600	2.03
including islands between Asia and Australia	2,282,600	1.87
remaining islands	212,100	0.17
ocean	119,852,000	



Fig. S1. Distance to nearest land for each point in longitudinal bands of 5°.

Table S2. Mean distance to nearest land for point in longitudinal bands of 5°.

Longitudinal band	Mean distance (km)	SD	N	min	max
180W–175W	403.3	291.0	350	7	1,127
175W–170W	398.0	251.2	349	19	1,003
170W–165W	569.8	300.3	350	11	1,304
165W–160W	584.6	346.5	350	38	1,481
160W–155W	488.4	361.4	349	8	1,409
155W–150W	578.3	345.7	350	7	1,596
150W–145W	762.6	444.1	350	3	1,833
145W–140W	897.5	627.5	349	7	1,999
140W–135W	1,053.4	707.7	350	4	2,219
135W–130W	1,121.0	594.8	350	53	2,250
130W–125W	1,099.8	501.1	350	16	2,013
125W–120W	1,011.2	547.6	350	7	2,073
120W–115W	942.9	550.2	337	7	2,121
115W–110W	804.8	592.6	313	7	2,098
110W–105W	796.7	580.6	295	8	2,055
105W–100W	986.5	406.6	265	8	1,792
100W–95W	932.8	472.2	278	8	1,766
95W–90W	730.5	523.2	306	7	1,776
90W–85W	555.1	356.4	294	6	1,401

Longitudinal band	Mean distance (km)	SD	N	min	max
85W–80W	298.5	231.9	295	2	974
80W–75W	215.1	164.7	256	7	662
75W–70W	222.6	169.7	190	2	659
70W–65W	299.4	190.6	118	8	729
65W–60W	298.4	233.7	125	4	838
60W–55W	528.5	291.0	144	7	1,099
55W–50W	818.6	427.4	165	7	1,510
50W–45W	946.1	621.5	226	5	1,934
45W–40W	1,157.2	695.7	253	2	2,206
40W–35W	981.5	579.7	309	8	2,086
35W–30W	801.0	410.4	350	32	1,617
30W–25W	716.6	318.1	350	18	1,595
25W–20W	765.4	365.1	350	8	1,777
20W–15W	673.2	538.2	334	3	2,062
15W–10W	731.9	572.9	251	7	2,186
10W–5W	775.8	528.2	205	17	2,078
5W–0	858.4	481.4	200	48	2,043
0–5E	857.3	363.7	206	8	1,613
5E–10E	522.4	287.5	195	3	1,154
10E–15E	251.9	177.9	113	8	699
15E–20E	119.8	75.4	18	17	264
20E–25E	30.6	22.0	5	7	50
25E–30E	99.3	62.1	9	15	216
30E–35E	201.2	150.2	41	7	543
35E–40E	282.0	255.8	114	3	937
40E–45E	263.8	264.6	176	1	1,049
45E–50E	302.4	268.5	174	7	1,059
50E–55E	333.0	284.9	270	3	1,270

Longitudinal band	Mean distance (km)	SD	N	min	max
55E–60E	458.3	346.2	281	7	1,501
60E–65E	687.0	351.4	300	17	1,638
65E–70E	639.5	340.0	296	7	1,740
70E–75E	589.8	547.6	269	8	1,964
75E–80E	983.6	628.3	223	8	2,275
80E–85E	1162.7	751.0	256	8	2,641
85E–90E	1,090.1	649.5	281	8	2,701
90E–95E	763.7	643.7	277	3	2,263
95E–100E	636.3	590.2	233	5	1,799
100E–105E	599.7	453.7	199	3	1,341
105E–110E	351.9	288.0	233	5	912
110E–115E	223.9	169.5	238	7	752
115E–120E	161.0	142.9	189	2	615
120E–125E	84.7	74.7	226	4	340
125E–130E	171.8	159.1	246	1	683
130E–135E	260.4	236.2	230	5	913
135E–140E	306.7	219.8	233	7	892
140E–145E	221.9	138.9	218	8	569
145E–150E	293.5	214.1	261	6	911
150E–155E	341.5	266.9	315	3	1,141
155E–160E	424.8	256.2	349	8	1,252
160E–165E	431.2	313.6	348	3	1,522
165E–170E	343.4	378.6	348	2	1,658
170E–175E	438.7	303.5	350	21	1,346
175E–180E	471.6	292.3	349	8	1,164