Table S1: Full list of day-to-day combinatorics histogram data counts for March equinox time period (15 Feb – 21 May) based on EAR Kototabang FAI observations 2011-2013.

combi	percentage	count	combi	percentage	count	combi	percentage	count
+	$54.55\% \pm 3.06\%$	$(N = 144 \pm 8)$	+++++	$11.74\% \pm 2.21\%$	$(N = 25 \pm 5)$	++++++	$7.84\% \pm 1.88\%$	$(N = 16 \pm 4)$
-	$45.45\% \pm 3.06\%$	$(N = 120 \pm 8)$	++++-	$6.57\% \pm 1.70\%$	$(N = 14 \pm 4)$	+++++-	$3.43\% \pm 1.27\%$	$(N = 7 \pm 3)$
			+++-+	$4.23\% \pm 1.38\%$	$(N = 9 \pm 3)$	++++-+	$2.94\% \pm 1.18\%$	$(N = 6 \pm 2)$
++	$35.48\% \pm 3.04\%$	$(N = 88 \pm 8)$	+++--	$3.76\% \pm 1.30\%$	$(N = 8 \pm 3)$	++++--	$3.43\% \pm 1.27\%$	$(N = 7 \pm 3)$
+-	$19.35\% \pm 2.51\%$	$(N = 48 \pm 6)$	++-++	$1.41\% \pm 0.81\%$	$(N = 3 \pm 2)$	+++-++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
-+	$19.76\% \pm 2.53\%$	$(N = 49 \pm 6)$	++-+-	$3.29\% \pm 1.22\%$	$(N = 7 \pm 3)$	+++-+-	$2.94\% \pm 1.18\%$	$(N = 6 \pm 2)$
--	$25.40\% \pm 2.77\%$	$(N = 63 \pm 7)$	++--+	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	+++--+	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
			++---	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	+++---	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
+++	$26.38\% \pm 2.88\%$	$(N = 62 \pm 7)$	+-+++	$2.82\% \pm 1.13\%$	$(N = 6 \pm 2)$	++-+++	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
++-	$10.21\% \pm 1.97\%$	$(N = 24 \pm 5)$	+-++-	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	++-+-+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
+-+	$8.51\% \pm 1.82\%$	$(N = 20 \pm 4)$	+-+-+	$0.94\% \pm 0.66\%$	$(N = 2 \pm 1)$	++-+--	$2.45\% \pm 1.08\%$	$(N = 5 \pm 2)$
+--	$10.21\% \pm 1.97\%$	$(N = 24 \pm 5)$	+-+--	$4.23\% \pm 1.38\%$	$(N = 9 \pm 3)$	++--++	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
-++	$9.79\% \pm 1.94\%$	$(N = 23 \pm 5)$	+--++	$3.29\% \pm 1.22\%$	$(N = 7 \pm 3)$	++--+-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
-+-	$9.36\% \pm 1.90\%$	$(N = 22 \pm 4)$	+--+-	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	++---+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
--+	$9.79\% \pm 1.94\%$	$(N = 23 \pm 5)$	+---+	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	++----	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
---	$15.74\% \pm 2.37\%$	$(N = 37 \pm 6)$	+----	$2.82\% \pm 1.13\%$	$(N = 6 \pm 2)$	+-++++	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
			-++++	$7.51\% \pm 1.81\%$	$(N = 16 \pm 4)$	+-+++-	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
++++	$18.39\% \pm 2.59\%$	$(N = 41 \pm 6)$	-+++-	$2.35\% \pm 1.04\%$	$(N = 5 \pm 2)$	+-+-++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
+++-	$8.52\% \pm 1.87\%$	$(N = 19 \pm 4)$	-++-+	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	+-+--+	$2.45\% \pm 1.08\%$	$(N = 5 \pm 2)$
++-+	$4.93\% \pm 1.45\%$	$(N = 11 \pm 3)$	-+-++	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	+-+---	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
++--	$4.04\% \pm 1.32\%$	$(N = 9 \pm 3)$	-+-+-	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	+--+++	$2.94\% \pm 1.18\%$	$(N = 6 \pm 2)$
+-++	$3.14\% \pm 1.17\%$	$(N = 7 \pm 3)$	-+--+	$3.29\% \pm 1.22\%$	$(N = 7 \pm 3)$	+--+--	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
+-+-	$4.93\% \pm 1.45\%$	$(N = 11 \pm 3)$	-+---	$2.82\% \pm 1.13\%$	$(N = 6 \pm 2)$	+---+-	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
+--+	$4.93\% \pm 1.45\%$	$(N = 11 \pm 3)$	--+++	$5.16\% \pm 1.52\%$	$(N = 11 \pm 3)$	+---++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
+---	$4.93\% \pm 1.45\%$	$(N = 11 \pm 3)$	--++-	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	+---+-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
-+++	$9.42\% \pm 1.96\%$	$(N = 21 \pm 4)$	--+-+	$3.29\% \pm 1.22\%$	$(N = 7 \pm 3)$	+----+	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
-++-	$0.90\% \pm 0.63\%$	$(N = 2 \pm 1)$	--+--	$1.41\% \pm 0.81\%$	$(N = 3 \pm 2)$	+-----	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
-+-+	$4.04\% \pm 1.32\%$	$(N = 9 \pm 3)$	---++	$1.88\% \pm 0.93\%$	$(N = 4 \pm 2)$	-+++++	$4.41\% \pm 1.44\%$	$(N = 9 \pm 3)$
-+--	$5.83\% \pm 1.57\%$	$(N = 13 \pm 4)$	---+-	$2.82\% \pm 1.13\%$	$(N = 6 \pm 2)$	-++++-	$3.43\% \pm 1.27\%$	$(N = 7 \pm 3)$
--++	$5.38\% \pm 1.51\%$	$(N = 12 \pm 3)$	----+	$3.29\% \pm 1.22\%$	$(N = 7 \pm 3)$	-+++-+	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
--+-	$4.48\% \pm 1.39\%$	$(N = 10 \pm 3)$	-----	$8.45\% \pm 1.91\%$	$(N = 18 \pm 4)$	-+++--	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
---+	$4.93\% \pm 1.45\%$	$(N = 11 \pm 3)$				-++-+-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
----	$11.21\% \pm 2.11\%$	$(N = 25 \pm 5)$				-+-+++	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
						-+-++-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
						-+-+--	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						-+--++	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						-+--+-	$1.47\% \pm 0.84\%$	$(N = 3 \pm 2)$
						-+---+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
						-+----	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						--++++	$4.90\% \pm 1.51\%$	$(N = 10 \pm 3)$
						--+++-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
						--++-+	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
						--+-++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
						--+-+-	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						--+--+	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$
						--+---	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
						---+++	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						---+-+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
						---+--	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						----++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$
						----+-	$2.45\% \pm 1.08\%$	$(N = 5 \pm 2)$
						-----+	$1.96\% \pm 0.97\%$	$(N = 4 \pm 2)$
						------	$6.86\% \pm 1.77\%$	$(N = 14 \pm 4)$

Table S2: Full list of day-to-day combinatorics histogram data counts for June Solstice time period (21 May – 20 Aug) based on EAR Kototabang FAI observations 2011-2013.

combi	percentage	count	combi	percentage	count	combi	percentage	count
+	$29.62\% \pm 2.83\%$	$(N = 77 \pm 7)$	++++-	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$	++++--	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
-	$70.38\% \pm 2.83\%$	$(N = 183 \pm 7)$	+++-+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+++-+-	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
			+++--	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$	+++---	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
++	$9.35\% \pm 1.86\%$	$(N = 23 \pm 5)$	++-+-	$1.95\% \pm 0.97\%$	$(N = 4 \pm 2)$	++-+--	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
+-	$19.11\% \pm 2.51\%$	$(N = 47 \pm 6)$	++--+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	++--+-	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
-+	$20.73\% \pm 2.59\%$	$(N = 51 \pm 6)$	++---	$2.93\% \pm 1.18\%$	$(N = 6 \pm 2)$	++---+	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
--	$50.81\% \pm 3.19\%$	$(N = 125 \pm 8)$	+-+++	$0.49\% \pm 0.49\%$	$(N = 1 \pm 1)$	++----	$2.60\% \pm 1.15\%$	$(N = 5 \pm 2)$
			+-++-	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+-+++-	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
+++	$3.43\% \pm 1.19\%$	$(N = 8 \pm 3)$	+-+--	$3.41\% \pm 1.29\%$	$(N = 7 \pm 3)$	+-++--	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
++-	$5.15\% \pm 1.45\%$	$(N = 12 \pm 3)$	+--++	$1.46\% \pm 0.84\%$	$(N = 3 \pm 2)$	+-+--+	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
+-+	$6.01\% \pm 1.56\%$	$(N = 14 \pm 4)$	+--+-	$2.44\% \pm 1.08\%$	$(N = 5 \pm 2)$	+-+---	$2.08\% \pm 1.03\%$	$(N = 4 \pm 2)$
+--	$13.30\% \pm 2.22\%$	$(N = 31 \pm 5)$	+---+	$3.41\% \pm 1.27\%$	$(N = 7 \pm 3)$	+--+++	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
-++	$6.01\% \pm 1.56\%$	$(N = 14 \pm 4)$	+----	$6.83\% \pm 1.76\%$	$(N = 14 \pm 4)$	+--++-	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
-+-	$14.16\% \pm 2.28\%$	$(N = 33 \pm 5)$	-++++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+--+-+	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
--+	$14.59\% \pm 2.31\%$	$(N = 34 \pm 5)$	-+++-	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+--+--	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
---	$37.34\% \pm 3.17\%$	$(N = 87 \pm 7)$	-++-+	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+---++	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
			-++--	$2.93\% \pm 1.18\%$	$(N = 6 \pm 2)$	+---+-	$3.13\% \pm 1.26\%$	$(N = 6 \pm 2)$
++++	$0.91\% \pm 0.64\%$	$(N = 2 \pm 1)$	-+-++	$0.98\% \pm 0.69\%$	$(N = 2 \pm 1)$	+----+	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
+++-	$1.37\% \pm 0.79\%$	$(N = 3 \pm 2)$	-+-+-	$1.46\% \pm 0.84\%$	$(N = 3 \pm 2)$	+-----	$4.69\% \pm 1.53\%$	$(N = 9 \pm 3)$
++-+	$1.83\% \pm 0.90\%$	$(N = 4 \pm 2)$	-+--+	$2.44\% \pm 1.08\%$	$(N = 5 \pm 2)$	-++++-	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
++--	$3.65\% \pm 1.27\%$	$(N = 8 \pm 3)$	-+---	$8.78\% \pm 1.98\%$	$(N = 18 \pm 4)$	-+++-+	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
+-++	$1.37\% \pm 0.79\%$	$(N = 3 \pm 2)$	--+++	$2.44\% \pm 1.08\%$	$(N = 5 \pm 2)$	-++-+-	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
+-+-	$3.65\% \pm 1.27\%$	$(N = 8 \pm 3)$	--++-	$2.44\% \pm 1.08\%$	$(N = 5 \pm 2)$	-++--+	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
+--+	$3.65\% \pm 1.27\%$	$(N = 8 \pm 3)$	--+-+	$2.93\% \pm 1.18\%$	$(N = 6 \pm 2)$	-++---	$2.08\% \pm 1.03\%$	$(N = 4 \pm 2)$
+---	$10.50\% \pm 2.07\%$	$(N = 23 \pm 5)$	--+--	$7.32\% \pm 1.82\%$	$(N = 15 \pm 4)$	-+-++-	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
-+++	$2.74\% \pm 1.10\%$	$(N = 6 \pm 2)$	---++	$2.93\% \pm 1.18\%$	$(N = 6 \pm 2)$	-+-+--	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
-++-	$3.65\% \pm 1.27\%$	$(N = 8 \pm 3)$	---+-	$7.80\% \pm 1.87\%$	$(N = 16 \pm 4)$	-+--++	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
-+-+	$3.65\% \pm 1.27\%$	$(N = 8 \pm 3)$	----+	$6.34\% \pm 1.70\%$	$(N = 13 \pm 3)$	-+--+-	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
-+--	$10.50\% \pm 2.07\%$	$(N = 23 \pm 5)$	-----	$21.46\% \pm 2.87\%$	$(N = 44 \pm 6)$	-+---+	$3.13\% \pm 1.26\%$	$(N = 6 \pm 2)$
--++	$4.57\% \pm 1.41\%$	$(N = 10 \pm 3)$				-+----	$5.21\% \pm 1.60\%$	$(N = 10 \pm 3)$
--+-	$10.05\% \pm 2.03\%$	$(N = 22 \pm 4)$				--++++	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
---+	$10.96\% \pm 2.11\%$	$(N = 24 \pm 5)$				--+++-	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
----	$26.94\% \pm 3.00\%$	$(N = 59 \pm 74)$				--++-+	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
						--++--	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
						--+-++	$1.04\% \pm 0.73\%$	$(N = 2 \pm 1)$
						--+-+-	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
						--+--+	$0.52\% \pm 0.52\%$	$(N = 1 \pm 1)$
						--+---	$7.29\% \pm 1.88\%$	$(N = 14 \pm 4)$
						---+++	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
						---++-	$1.56\% \pm 0.90\%$	$(N = 3 \pm 2)$
						---+-+	$2.08\% \pm 1.03\%$	$(N = 4 \pm 2)$
						---+--	$5.73\% \pm 1.68\%$	$(N = 11 \pm 3)$
						----++	$2.60\% \pm 1.15\%$	$(N = 5 \pm 2)$
						----+-	$3.65\% \pm 1.35\%$	$(N = 7 \pm 3)$
						-----+	$5.21\% \pm 1.60\%$	$(N = 10 \pm 3)$
						------	$17.71\% \pm 2.76\%$	$(N = 34 \pm 5)$

Table S3: Full list of day-to-day combinatorics histogram data counts for September equinox time period (20 Aug – 15 Nov) based on EAR Kototabang FAI observations 2011-2013.

combi	percentage	count	combi	percentage	count	combi	percentage	count
+	$57.76\% \pm 3.24\%$	$(N = 134 \pm 8)$	+++++	$19.35\% \pm 3.17\%$	$(N = 30 \pm 5)$	++++++	$14.89\% \pm 3.00\%$	$(N = 21 \pm 4)$
-	$42.24\% \pm 3.24\%$	$(N = 98 \pm 8)$	++++-	$5.81\% \pm 1.88\%$	$(N = 9 \pm 3)$	+++++-	$4.26\% \pm 1.70\%$	$(N = 6 \pm 2)$
			+++-+	$3.87\% \pm 1.55\%$	$(N = 6 \pm 2)$	++++--	$3.55\% \pm 1.56\%$	$(N = 5 \pm 2)$
++	$43.41\% \pm 3.46\%$	$(N = 89 \pm 7)$	+++--	$3.87\% \pm 1.55\%$	$(N = 6 \pm 2)$	+++-++	$3.55\% \pm 1.56\%$	$(N = 5 \pm 2)$
+-	$15.61\% \pm 2.54\%$	$(N = 32 \pm 5)$	++-++	$4.52\% \pm 1.67\%$	$(N = 7 \pm 3)$	+++-+-	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
-+	$14.15\% \pm 2.43\%$	$(N = 29 \pm 5)$	++-+-	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	+++--+	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
--	$26.83\% \pm 3.09\%$	$(N = 55 \pm 6)$	++--+	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	+++---	$2.84\% \pm 1.40\%$	$(N = 4 \pm 2)$
			++---	$3.23\% \pm 1.42\%$	$(N = 5 \pm 2)$	++-+++	$4.26\% \pm 1.70\%$	$(N = 6 \pm 2)$
+++	$32.97\% \pm 3.45\%$	$(N = 61 \pm 6)$	+-+++	$5.16\% \pm 1.77\%$	$(N = 8 \pm 3)$	++-++-	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
++-	$11.89\% \pm 2.38\%$	$(N = 22 \pm 4)$	+-++-	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	++-+--	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
+-+	$5.41\% \pm 1.66\%$	$(N = 10 \pm 3)$	+-+--	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	++--++	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
+--	$9.73\% \pm 2.18\%$	$(N = 18 \pm 4)$	+--++	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	++--+-	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
-++	$10.27\% \pm 2.23\%$	$(N = 19 \pm 4)$	+--+-	$1.29\% \pm 0.91\%$	$(N = 2 \pm 1)$	++---+	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
-+-	$3.78\% \pm 1.41\%$	$(N = 7 \pm 3)$	+---+	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	++----	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
--+	$9.19\% \pm 2.12\%$	$(N = 17 \pm 4)$	+----	$3.23\% \pm 1.42\%$	$(N = 5 \pm 2)$	+-++++	$3.55\% \pm 1.56\%$	$(N = 5 \pm 2)$
---	$16.76\% \pm 2.75\%$	$(N = 31 \pm 5)$	-++++	$5.16\% \pm 1.77\%$	$(N = 8 \pm 3)$	+-+++-	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
			-+++-	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	+-++--	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
++++	$25.00\% \pm 3.34\%$	$(N = 42 \pm 6)$	-++-+	$1.29\% \pm 0.91\%$	$(N = 2 \pm 1)$	+--+++	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
+++-	$8.33\% \pm 2.13\%$	$(N = 14 \pm 4)$	-++--	$1.94\% \pm 1.11\%$	$(N = 3 \pm 2)$	+--++-	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
++-+	$4.76\% \pm 1.64\%$	$(N = 8 \pm 3)$	-+-++	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	+--+-+	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
++--	$6.55\% \pm 1.91\%$	$(N = 11 \pm 3)$	-+--+	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	+--+--	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
+-++	$5.36\% \pm 1.74\%$	$(N = 9 \pm 3)$	-+---	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	+---++	$2.84\% \pm 1.40\%$	$(N = 4 \pm 2)$
+-+-	$0.60\% \pm 0.60\%$	$(N = 1 \pm 1)$	--+++	$3.23\% \pm 1.42\%$	$(N = 5 \pm 2)$	+----+	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
+--+	$3.57\% \pm 1.43\%$	$(N = 6 \pm 2)$	--++-	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	+-----	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
+---	$5.36\% \pm 1.74\%$	$(N = 9 \pm 3)$	--+-+	$0.65\% \pm 0.65\%$	$(N = 1 \pm 1)$	-+++++	$3.55\% \pm 1.56\%$	$(N = 5 \pm 2)$
-+++	$7.74\% \pm 2.06\%$	$(N = 13 \pm 3)$	--+--	$2.58\% \pm 1.27\%$	$(N = 4 \pm 2)$	-++++-	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
-++-	$2.98\% \pm 1.31\%$	$(N = 5 \pm 2)$	---++	$3.23\% \pm 1.42\%$	$(N = 5 \pm 2)$	-+++-+	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
-+-+	$0.60\% \pm 0.60\%$	$(N = 1 \pm 1)$	---+-	$1.94\% \pm 1.11\%$	$(N = 3 \pm 2)$	-+++--	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
-+--	$3.57\% \pm 1.43\%$	$(N = 6 \pm 2)$	----+	$3.23\% \pm 1.42\%$	$(N = 5 \pm 2)$	-++-++	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
--++	$5.95\% \pm 1.83\%$	$(N = 10 \pm 3)$	-----	$7.74\% \pm 2.15\%$	$(N = 12 \pm 3)$	-++--+	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
--+-	$2.98\% \pm 1.31\%$	$(N = 5 \pm 2)$				-++---	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
---+	$5.36\% \pm 1.74\%$	$(N = 9 \pm 3)$				-+-+++	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
----	$11.31\% \pm 2.45\%$	$(N = 19 \pm 4)$				-+--++	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
						-+---+	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
						-+----	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
						--++++	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
						--+++-	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						--++-+	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						--++--	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						--+-++	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
						--+--+	$0.71\% \pm 0.71\%$	$(N = 1 \pm 1)$
						--+---	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
						---+++	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						---++-	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
						---+--	$2.13\% \pm 1.21\%$	$(N = 3 \pm 2)$
						----++	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						----+-	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						-----+	$1.42\% \pm 1.00\%$	$(N = 2 \pm 1)$
						------	$5.67\% \pm 1.95\%$	$(N = 8 \pm 3)$

Table S4: Full list of day-to-day combinatorics histogram data counts for December solstice time period (15 Nov – 15 Feb) based on EAR Kototabang FAI observations 2011-2013.

combi	percentage	count	combi	percentage	count	combi	percentage	count
+	$12.60\% \pm 2.12\%$	$(N = 31 \pm 5)$	+++−−	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	+++−−−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
−	$87.40\% \pm 2.12\%$	$(N = 215 \pm 5)$	++−+−	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	++−+−−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
			++−−−	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	++−−−−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
++	$2.10\% \pm 0.93\%$	$(N = 5 \pm 2)$	+−+−−	$1.86\% \pm 0.92\%$	$(N = 4 \pm 2)$	+−+−−−	$1.92\% \pm 0.95\%$	$(N = 4 \pm 2)$
+−	$10.50\% \pm 1.99\%$	$(N = 25 \pm 5)$	+−−+−	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	+−−+−−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
−+	$11.34\% \pm 2.05\%$	$(N = 27 \pm 5)$	+−−−+	$1.40\% \pm 0.80\%$	$(N = 3 \pm 2)$	+−−−+−	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
−−	$76.05\% \pm 2.77\%$	$(N = 181 \pm 7)$	+−−−−	$6.98\% \pm 1.74\%$	$(N = 15 \pm 4)$	+−−−−+	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
			−+++−	$0.93\% \pm 0.66\%$	$(N = 2 \pm 1)$	+−−−−−	$5.77\% \pm 1.61\%$	$(N = 12 \pm 3)$
+++	$0.43\% \pm 0.43\%$	$(N = 1 \pm 1)$	−++−+	$0.93\% \pm 0.66\%$	$(N = 2 \pm 1)$	−+++−−	$0.96\% \pm 0.68\%$	$(N = 2 \pm 1)$
++−	$1.30\% \pm 0.75\%$	$(N = 3 \pm 2)$	−+−+−	$1.40\% \pm 0.80\%$	$(N = 3 \pm 2)$	−++−+−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
+−+	$2.17\% \pm 0.96\%$	$(N = 5 \pm 2)$	−+−−+	$0.47\% \pm 0.47\%$	$(N = 1 \pm 1)$	−+−+−−	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
+−−	$8.26\% \pm 1.81\%$	$(N = 19 \pm 4)$	−+−−−	$7.44\% \pm 1.79\%$	$(N = 16 \pm 4)$	−+−−+−	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
−++	$2.17\% \pm 0.96\%$	$(N = 5 \pm 2)$	−−+++	$0.93\% \pm 0.66\%$	$(N = 2 \pm 1)$	−+−−−+	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
−+−	$9.13\% \pm 1.90\%$	$(N = 21 \pm 4)$	−−++−	$0.93\% \pm 0.66\%$	$(N = 2 \pm 1)$	−+−−−−	$6.25\% \pm 1.68\%$	$(N = 13 \pm 3)$
−−+	$9.13\% \pm 1.90\%$	$(N = 21 \pm 4)$	−−+−+	$1.40\% \pm 0.80\%$	$(N = 3 \pm 2)$	−−+++−	$0.96\% \pm 0.68\%$	$(N = 2 \pm 1)$
−−−	$67.39\% \pm 3.09\%$	$(N = 155 \pm 7)$	−−+−−	$6.05\% \pm 1.62\%$	$(N = 13 \pm 3)$	−−++−+	$0.96\% \pm 0.68\%$	$(N = 2 \pm 1)$
			−−−++	$1.86\% \pm 0.92\%$	$(N = 4 \pm 2)$	−−+−+−	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
+++−	$0.45\% \pm 0.45\%$	$(N = 1 \pm 1)$	−−−+−	$6.51\% \pm 1.68\%$	$(N = 14 \pm 4)$	−−+−−+	$0.48\% \pm 0.48\%$	$(N = 1 \pm 1)$
++−+	$0.90\% \pm 0.64\%$	$(N = 2 \pm 1)$	−−−−+	$6.05\% \pm 1.62\%$	$(N = 13 \pm 3)$	−−+−−−	$5.77\% \pm 1.62\%$	$(N = 12 \pm 3)$
++−−	$0.45\% \pm 0.45\%$	$(N = 1 \pm 1)$	−−−−−	$53.02\% \pm 3.40\%$	$(N = 114 \pm 7)$	−−−+++	$0.96\% \pm 0.68\%$	$(N = 2 \pm 1)$
+−+−	$1.80\% \pm 0.89\%$	$(N = 4 \pm 2)$				−−−++−	$0.96\% \pm 0.68\%$	$(N = 2 \pm 1)$
+−−+	$0.45\% \pm 0.45\%$	$(N = 1 \pm 1)$				−−−+−+	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
+−−−	$8.11\% \pm 1.83\%$	$(N = 18 \pm 4)$				−−−+−−	$4.81\% \pm 1.49\%$	$(N = 10 \pm 3)$
−+++	$0.90\% \pm 0.64\%$	$(N = 2 \pm 1)$				−−−−++	$1.44\% \pm 0.83\%$	$(N = 3 \pm 2)$
−++−	$0.90\% \pm 0.64\%$	$(N = 2 \pm 1)$				−−−−+−	$4.81\% \pm 1.49\%$	$(N = 10 \pm 3)$
−+−+	$1.35\% \pm 0.77\%$	$(N = 3 \pm 2)$				−−−−−+	$4.33\% \pm 1.41\%$	$(N = 9 \pm 3)$
−+−−	$7.66\% \pm 1.78\%$	$(N = 17 \pm 4)$				−−−−−−	$48.08\% \pm 3.47\%$	$(N = 100 \pm 7)$
−−++	$1.80\% \pm 0.89\%$	$(N = 4 \pm 2)$						
−−+−	$7.66\% \pm 1.78\%$	$(N = 17 \pm 4)$						
−−−+	$8.11\% \pm 1.83\%$	$(N = 18 \pm 4)$						
−−−−	$59.46\% \pm 3.30\%$	$(N = 132 \pm 7)$						