freq=1, start=1, circles=10, rep=1

freq=1, start=1, circles=10, rep=2

160 170

160 170

150 160 170

140

180 190

180 190

180 190

180 190

180

190

freq=1, start=1, circles=12, rep=1

140 150 160 170 180

190

Julian day

140

150 160 170 180

freq=1, start=1, circles=8, rep=6

freq=1, start=1, circles=8, rep=7

 180 190

180 190

180 190

180 190

freq=1, start=1, circles=8, rep=5

140 150 160 170 180

Julian day

150 160 170 180

 160 170

freq=1, start=1, circles=4, rep=1

freq=1, start=1, circles=4, rep=2

140 150 160 170

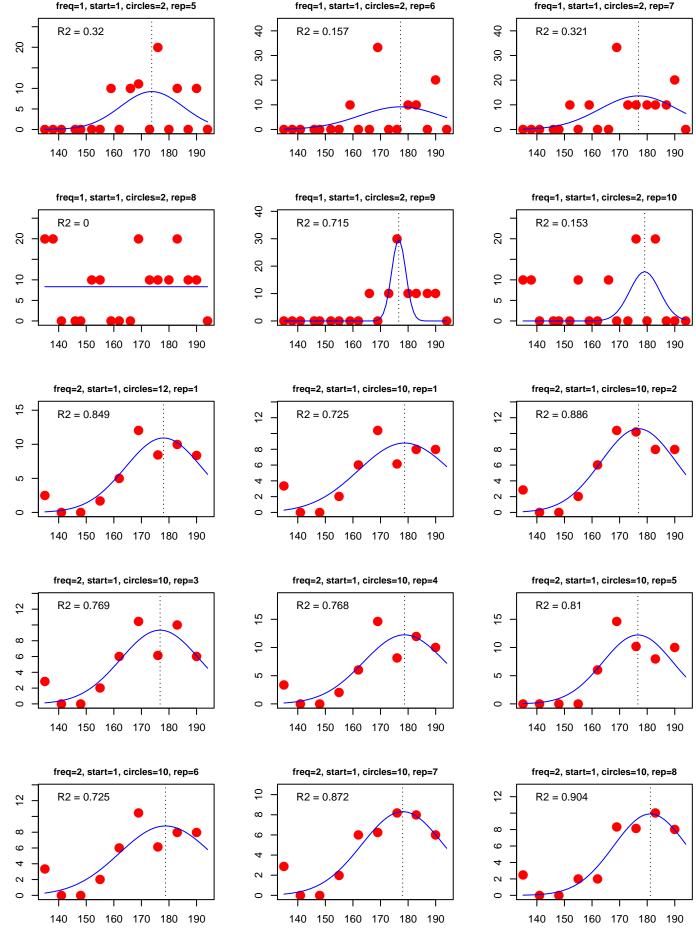
180 190

freq=1, start=1, circles=6, rep=10

140 150 160 170 180

Julian day

140 150 160 170 180 190



Julian day

freq=2, start=1, circles=10, rep=9

160 170

140 150 160 170 180 Julian day

freq=2, start=1, circles=10, rep=10

freq=2, start=1, circles=8, rep=1

160 170

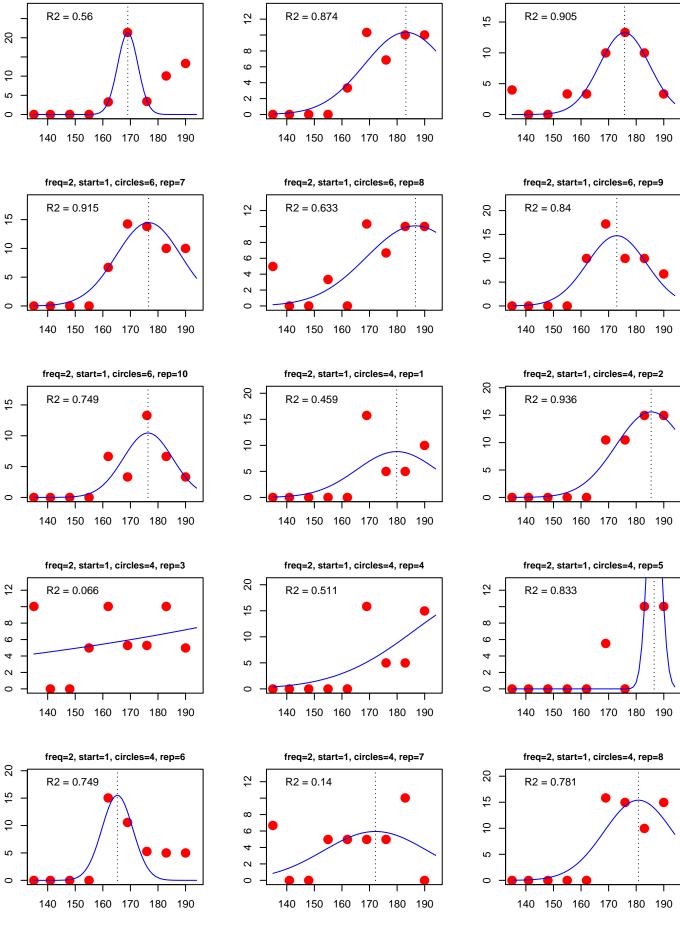
 180 190

180 190

180 190

180 190

freq=2, start=1, circles=6, rep=4



freq=2, start=1, circles=6, rep=5

freq=2, start=1, circles=6, rep=6

Julian day

freq=2, start=1, circles=4, rep=10

freq=2, start=1, circles=2, rep=1

180 190

180 190

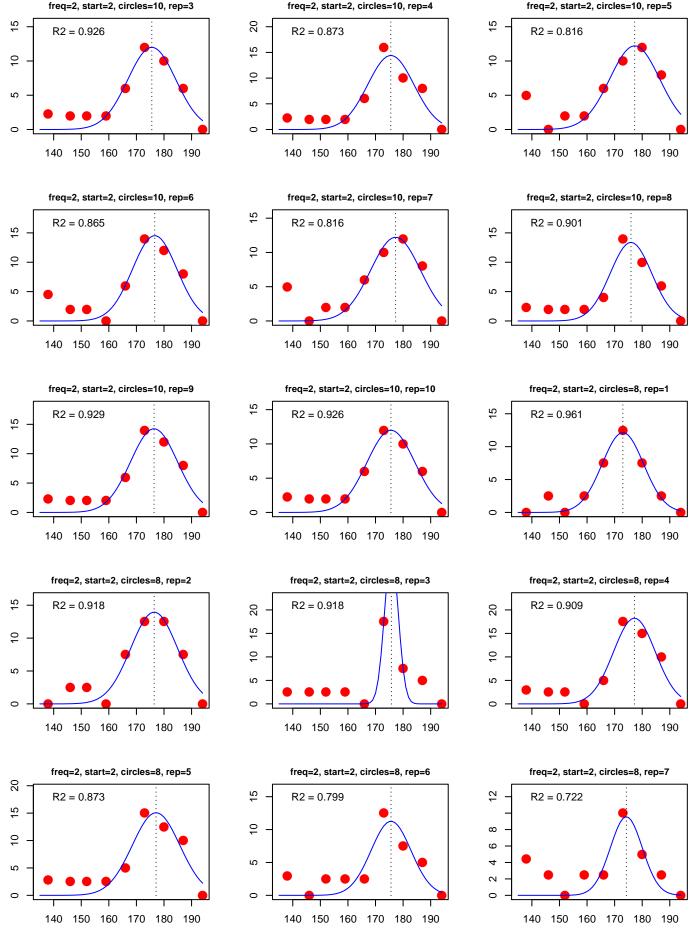
180 190

freq=2, start=1, circles=4, rep=9

 160 170 180

Julian day

150 160 170 180



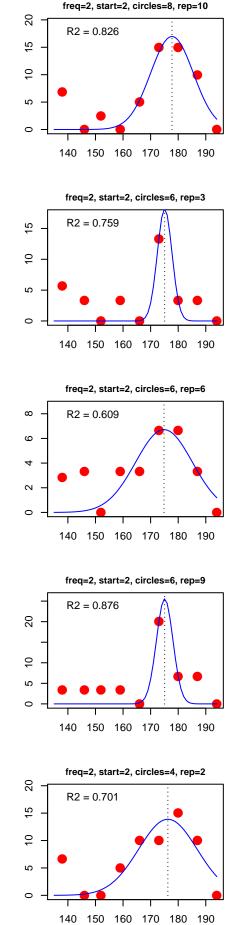
Julian day

freq=2, start=2, circles=8, rep=9

freq=2, start=2, circles=8, rep=8

160 170 180

140 150



Julian day

140 150

160 170

freq=2, start=2, circles=4, rep=3

 160 170 180

150 160 170 Julian day

freq=2, start=2, circles=4, rep=4

freq=2, start=2, circles=4, rep=5

180 190

 160 170

160 170

freq=2, start=2, circles=2, rep=9

freq=2, start=2, circles=2, rep=10

freq=2, start=2, circles=2, rep=8

Julian day

freq=3, start=1, circles=8, rep=3

freq=3, start=1, circles=8, rep=4

freq=3, start=1, circles=8, rep=2

140 150

180

160 170

190

Julian day

160 170 180

190

140 150

160 170

180

190

freq=3, start=1, circles=6, rep=8

freq=3, start=1, circles=6, rep=9

freq=3, start=1, circles=6, rep=7

160 170 180

140 150

Julian day

150 160 170 180 190

140 150

160 170

180 190

freq=3, start=1, circles=2, rep=3

freq=3, start=1, circles=2, rep=4

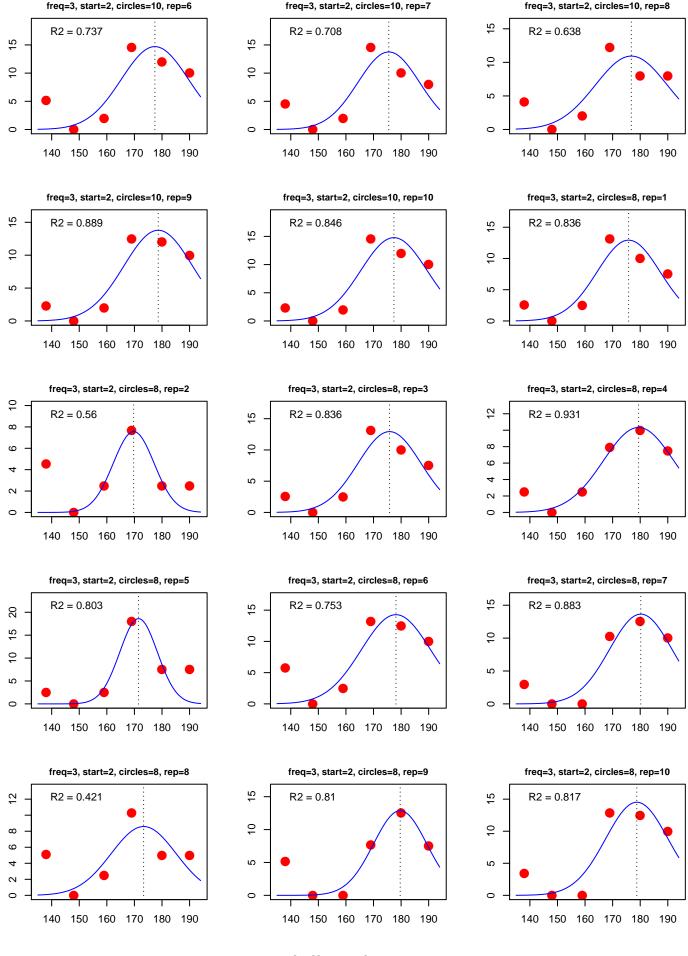
 180 190

180 190

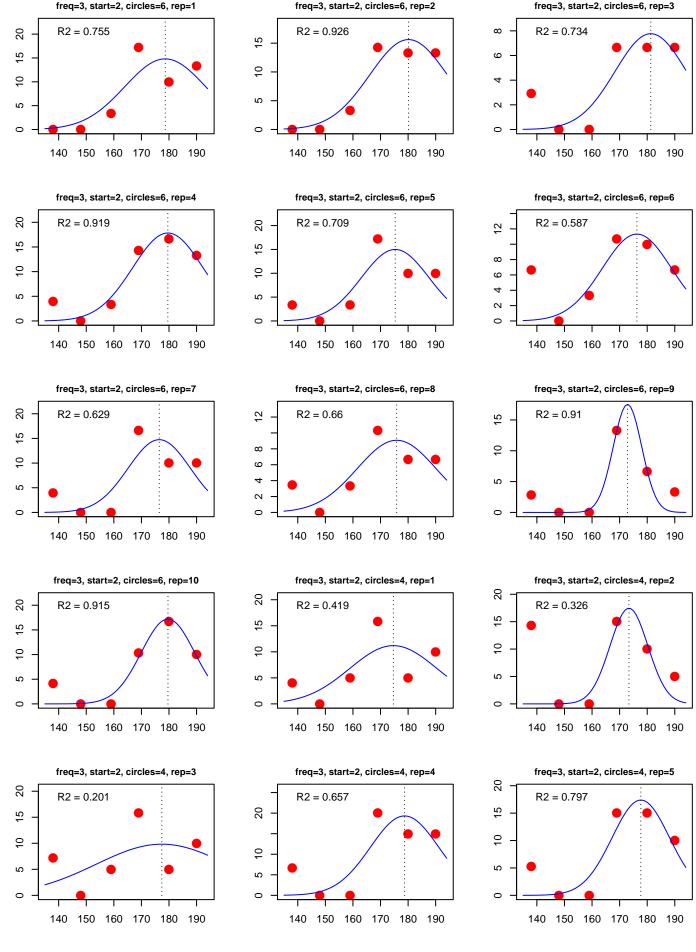
freq=3, start=1, circles=2, rep=2

 Julian day

150 160 170



Julian day



Julian day

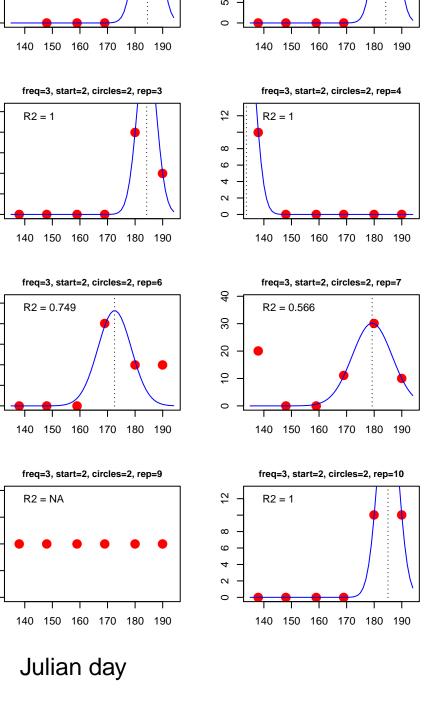
freq=3, start=2, circles=4, rep=7

freq=3, start=2, circles=4, rep=8

180 190

freq=3, start=2, circles=4, rep=6

 160 170



freq=3, start=3, circles=12, rep=1

140 150

160 170 180

150 160 170 180 Julian day

freq=3, start=3, circles=10, rep=1

freq=3, start=3, circles=10, rep=2

180 190

180 190

180 190

 180 190

freq=3, start=3, circles=8, rep=6

freq=3, start=3, circles=8, rep=7

180 190

180 190

180 190

freq=3, start=3, circles=8, rep=5

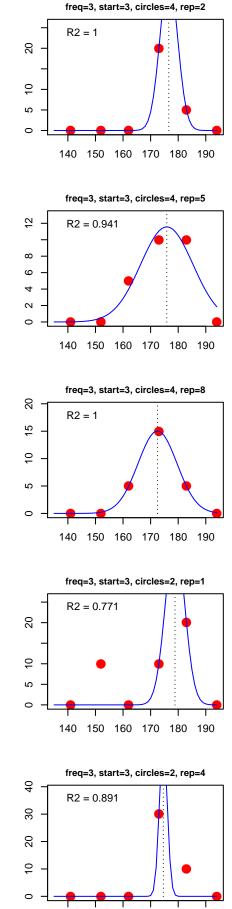
140 150

Julian day

150 160 170 180

freq=3, start=3, circles=6, rep=10

140 150 160 170



Julian day

150 160 170 180

140 150

180 190

freq=3, start=3, circles=4, rep=1

freq=3, start=3, circles=2, rep=6

freq=3, start=3, circles=2, rep=7

freq=3, start=3, circles=2, rep=5

Julian day

freq=4, start=1, circles=10, rep=10

freq=4, start=1, circles=8, rep=1

freq=4, start=1, circles=10, rep=9

Julian day

freq=4, start=1, circles=6, rep=5

freq=4, start=1, circles=6, rep=6

freq=4, start=1, circles=6, rep=4

Julian day

freq=4, start=1, circles=4, rep=10

freq=4, start=1, circles=2, rep=1

freq=4, start=1, circles=4, rep=9

Julian day

freq=4, start=2, circles=10, rep=4

freq=4, start=2, circles=10, rep=5

160 170

180 190

180 190

freq=4, start=2, circles=10, rep=3

 160 170 180

Julian day

160 170 180

freq=4, start=2, circles=8, rep=9

freq=4, start=2, circles=8, rep=10

freq=4, start=2, circles=8, rep=8

Julian day

freq=4, start=2, circles=4, rep=4

freq=4, start=2, circles=4, rep=5

180 190

freq=4, start=2, circles=4, rep=3

 Julian day

170 180

 freq=4, start=2, circles=2, rep=9

freq=4, start=2, circles=2, rep=10

freq=4, start=2, circles=2, rep=8

Julian day

freq=4, start=3, circles=8, rep=3

freq=4, start=3, circles=8, rep=4

freq=4, start=3, circles=8, rep=2

Julian day

freq=4, start=3, circles=6, rep=8

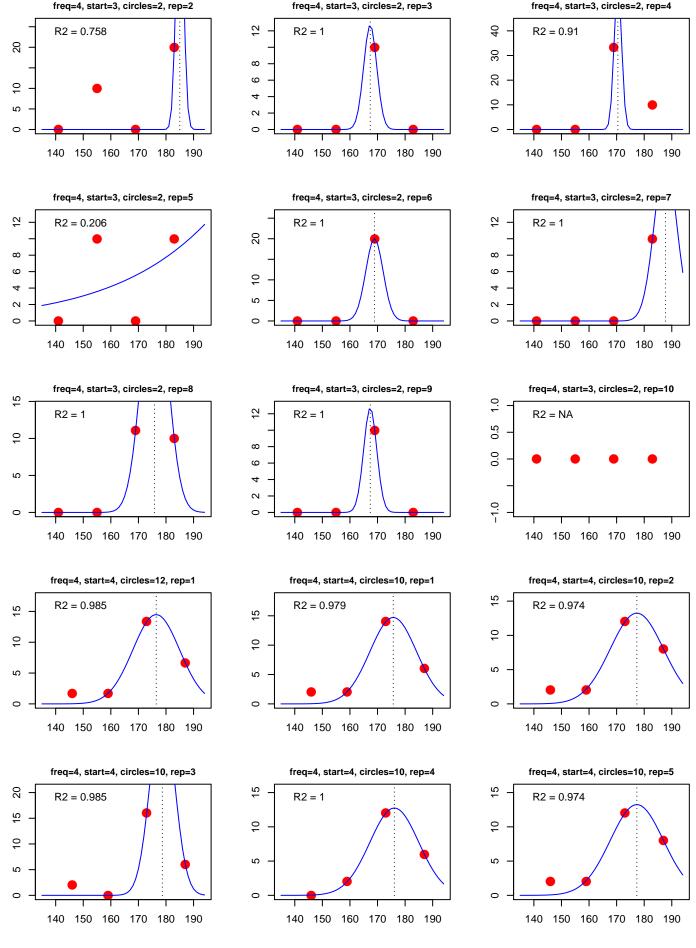
freq=4, start=3, circles=6, rep=9

freq=4, start=3, circles=6, rep=7

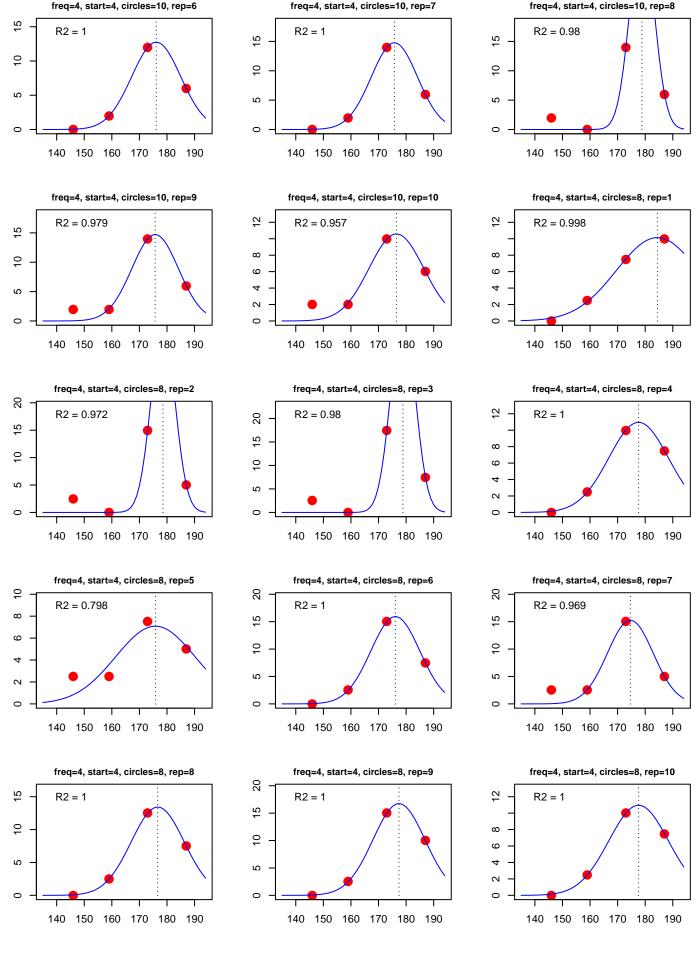
140 150 160 170 180

Julian day

170 180



Julian day



Julian day

freq=4, start=4, circles=6, rep=2

freq=4, start=4, circles=6, rep=3

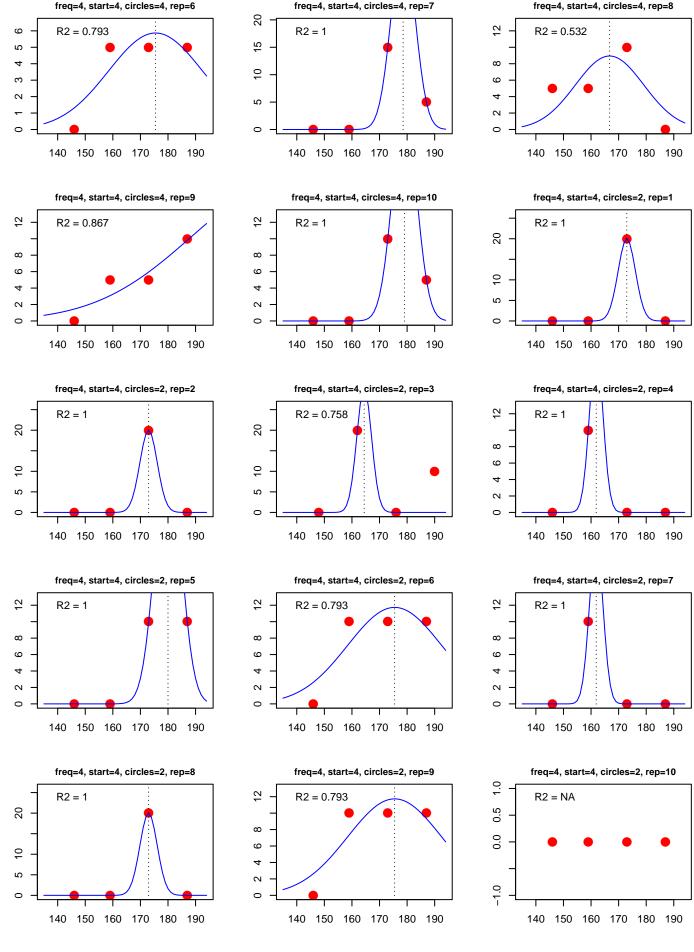
 freq=4, start=4, circles=6, rep=1

140 150

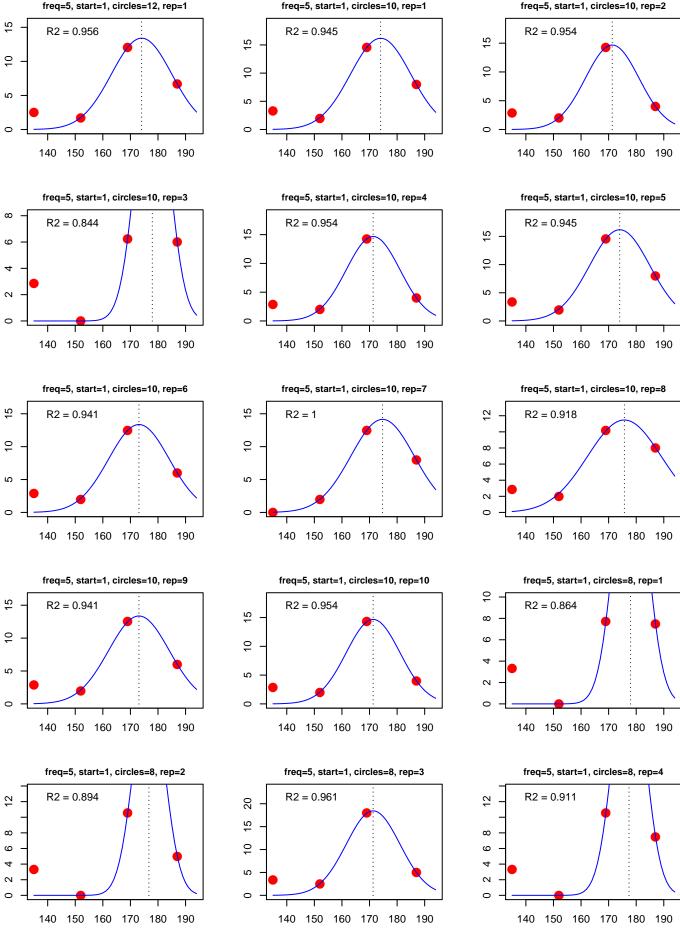
160 170

Julian day

150 160 170 180 190



Julian day



Julian day

freq=5, start=1, circles=8, rep=6

freq=5, start=1, circles=8, rep=7

freq=5, start=1, circles=8, rep=5

Julian day

freq=5, start=1, circles=4, rep=1

freq=5, start=1, circles=4, rep=2

180 190

140 150 160

freq=5, start=1, circles=6, rep=10

140 150

160 170 180

Julian day

150 160 170 180

freq=5, start=1, circles=2, rep=6

freq=5, start=1, circles=2, rep=7

180 190

180 190

180 190

180 190

freq=5, start=1, circles=2, rep=5

160 170

Julian day

150 160 170

 freq=5, start=2, circles=10, rep=10

freq=5, start=2, circles=8, rep=1

freq=5, start=2, circles=10, rep=9

 160 170 180 Julian day

freq=5, start=2, circles=6, rep=5

freq=5, start=2, circles=6, rep=6

180 190

180 190

180 190

freq=5, start=2, circles=6, rep=4

140 150

160 170 180

Julian day

 freq=5, start=2, circles=4, rep=10

freq=5, start=2, circles=2, rep=1

180 190

180 190

160 170

 freq=5, start=2, circles=4, rep=9

 Julian day

160 170

freq=5, start=3, circles=10, rep=4

freq=5, start=3, circles=10, rep=5

180 190

180 190

180 190

180 190

freq=5, start=3, circles=10, rep=3

140 150

160 170 180

Julian day

160 170

 freq=5, start=3, circles=8, rep=9

freq=5, start=3, circles=8, rep=10

180 190

180 190

180 190

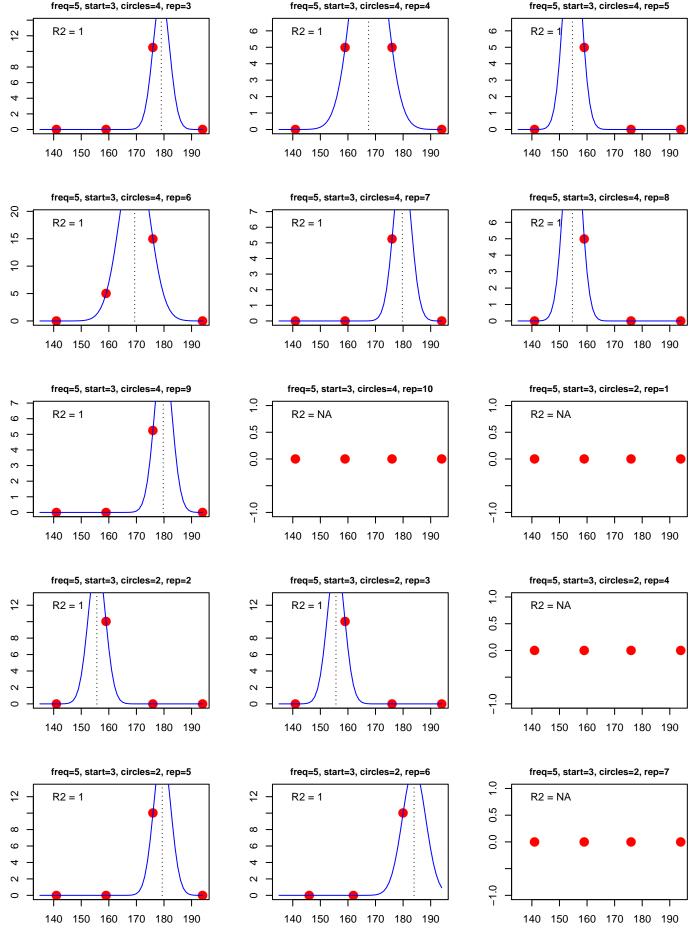
freq=5, start=3, circles=8, rep=8

140 150

160 170 180

Julian day

160 170

Julian day

freq=5, start=3, circles=2, rep=9

freq=5, start=3, circles=2, rep=10

180 190

180 190

180 190

180 190

 freq=5, start=3, circles=2, rep=8

140 150

160 170

Julian day

140 150 160 170 180 190

freq=5, start=4, circles=8, rep=3

freq=5, start=4, circles=8, rep=4

180 190

180 190

180 190

180 190

freq=5, start=4, circles=8, rep=2

 Julian day

160 170 180

 freq=5, start=4, circles=6, rep=8

freq=5, start=4, circles=6, rep=9

freq=5, start=4, circles=6, rep=7

Julian day

freq=5, start=4, circles=2, rep=3

freq=5, start=4, circles=2, rep=4

freq=5, start=4, circles=2, rep=2

Julian day

freq=5, start=5, circles=10, rep=7

freq=5, start=5, circles=10, rep=8

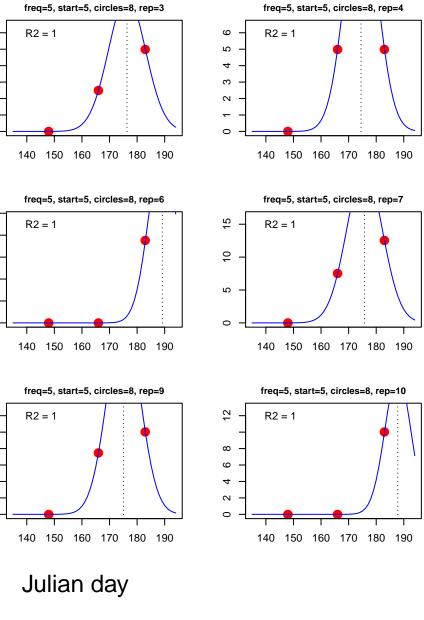
160 170

180 190

180 190

freq=5, start=5, circles=10, rep=6

 160 170 180



freq=5, start=5, circles=6, rep=2

freq=5, start=5, circles=6, rep=3

freq=5, start=5, circles=6, rep=1

Julian day

freq=5, start=5, circles=4, rep=7

freq=5, start=5, circles=4, rep=8

180 190

180 190

freq=5, start=5, circles=4, rep=6

140 150

160 170 180

180 190 freq=5, start=5, circles=2, rep=7 R2 = 1freq=5, start=5, circles=2, rep=10 R2 = NA1.0 180 190 150 160 170 180 Julian day