Supporting Information for

# To mitigate or adapt? Explaining why citizens responding to climate change favour the former 

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Percent Acceptance by MCMC Iteration


C
Tree Depth by MCMC Iteration After Burn-in

b

d


Figure S1. Convergence diagnostics and test of covariate importance for a BART model of the probability of having decided in favour of adaptation (taken as the equivalent of the expected utility value of adaptation). Per cent Metropolis-Hastings proposals accepted across the 43 trees with one point per iteration (a); average number of leaves across the trees by iteration (b); average tree depth across the trees used by iteration (c); test results for the importance of the covariate net value of expected impacts (d). The grey vertical line separates burn-in iterations and post-burn-in iterations and colours of dots illustrate the different computing cores used (a). The $p$-value is the fraction of permutation-sampled total misclassification errors less than the observed total misclassification error (d).


C
Tree Depth by MCMC Iteration After Burn-in

b

d


Figure S2. Convergence diagnostics and test of covariate importance for a BART model of the probability of having decided in favour of mitigation (taken as the equivalent of the expected utility value of mitigation). Per cent Metropolis-Hastings proposals accepted across the 65 trees with one point per iteration (a); average number of leaves across the trees by iteration (b); average tree depth across the trees used by iteration (c); test results for the importance of the covariate net value of expected impacts (d). The grey vertical line separates burn-in iterations and post-burn-in iterations and colours of dots illustrate the different computing cores used (a). The p-value is the fraction of permutationsampled total misclassification errors less than the observed total misclassification error (d).

Table S1. Responses to survey questions by response level split between those who have/have not decided in favour of adaptation and mitigation of climate change, respectively (Q7 and Q8 in Table 1).

| Number | Question | Response option | Has decided in favour of adaptation ( $\mathrm{n}=70$ ) <br> 0.21 [0.17, 0.25] | Has not decided in favour of adaptation ( $\mathrm{n}=268$ ) <br> 0.79 [0.76, 0.83] | Significant difference in estimated relative proportion of having decided in favour of adaptation - not having decided in favour of adaptation per response option and $90 \%$ CI | $\begin{gathered} \text { Has decided in } \\ \text { favour of } \\ \text { mitigation } \\ (\mathrm{n}=268) \\ 0.79[0.75,0.83] \end{gathered}$ | $\left\|\begin{array}{c} \text { Has not decided } \\ \text { in favour of } \\ \text { mitigation } \\ (n=70) \\ 0.21[0.17,0.24] \end{array}\right\|$ | Significant difference in estimated relative proportion of having decided in favour of mitigation - not having decided in favour of mitigation per response option and $90 \%$ CI |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Do you believe that the climate is changing because of human causes to the extent that it will affect you and/or your environment negatively? | Yes, definitely <br> Yes, probably <br> I do not know <br> Probably not <br> Definitely not | $\begin{gathered} 57 \\ 9 \\ 4 \\ 0 \\ 0 \end{gathered}$ | $\begin{gathered} 196 \\ 56 \\ 7 \\ 8 \\ 1 \end{gathered}$ |  | $\begin{gathered} 214 \\ 45 \\ 6 \\ 3 \\ 0 \\ 0 \end{gathered}$ | $\begin{gathered} 39 \\ 20 \\ 5 \\ 5 \\ 1 \end{gathered}$ | $\begin{gathered} 0.24[0.14,0.35] \\ -0.12[-0.21,-0.024] \\ -0.05[-0.11,-0.004] \\ -0.07[-0.12,-0.016] \end{gathered}$ |
| 2 | Do you believe that the climate is changing because of human causes to the extent that it will affect you and/or your environment positively? | Yes, definitely <br> Yes, probably I do not know Probably not Definitely not | $\begin{gathered} 11 \\ 6 \\ 10 \\ 26 \\ 17 \end{gathered}$ | $\begin{gathered} 34 \\ 36 \\ 22 \\ 123 \\ 53 \end{gathered}$ |  | $\begin{gathered} 36 \\ 31 \\ 22 \\ 121 \\ 58 \end{gathered}$ | $\begin{gathered} 9 \\ 11 \\ 10 \\ 28 \\ 12 \end{gathered}$ |  |
| 3 | Have you yourself experienced that sudden extreme situations or gradual changes have occurred in the municipality that you interpret as caused by long-term and global climate change and that has negative impacts? | Yes, definitely <br> Yes, probably I do not know Probably not Definitely not | $\begin{gathered} 23 \\ 25 \\ 16 \\ 6 \\ 0 \end{gathered}$ | $\begin{gathered} 51 \\ 95 \\ 82 \\ 32 \\ 8 \end{gathered}$ | $0.14[0.044,0.24]$ | $\begin{gathered} 68 \\ 100 \\ 74 \\ 22 \\ 4 \end{gathered}$ | $\begin{gathered} 6 \\ 20 \\ 90 \\ 16 \\ 4 \end{gathered}$ | $\begin{gathered} 0.16[0.088,0.23] \\ - \\ - \\ -0.15[-0.24,-0.066] \\ -0.050[-0.10,-0.0029] \end{gathered}$ |
| 4 | Have you yourself experienced that sudden | Yes, definitely <br> Yes, probably | $\begin{aligned} & 5 \\ & 9 \end{aligned}$ | $\begin{gathered} 7 \\ 29 \end{gathered}$ |  | $\begin{aligned} & 36 \\ & 31 \end{aligned}$ | $\begin{gathered} 9 \\ 11 \end{gathered}$ |  |


|  | extreme situations or gradual changes have occurred in the municipality that you interpret as caused by long-term and global climate change and that has positive impacts? | I do not know Probably not Definitely not | $\begin{gathered} 22 \\ 25 \\ 9 \end{gathered}$ | $\begin{aligned} & 95 \\ & 88 \\ & 49 \end{aligned}$ |  | $\begin{gathered} 22 \\ 121 \\ 58 \end{gathered}$ | $\begin{aligned} & 10 \\ & 28 \\ & 12 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | Do you expect that long-term and global climate changes will lead to negative impacts in Malmö on: |  |  |  |  |  |  |  |
| a | Transport | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 15 \\ 24 \\ 15 \\ 2 \\ 14 \end{gathered}$ | $\begin{gathered} 41 \\ 107 \\ 40 \\ 17 \\ 63 \end{gathered}$ |  | $\begin{gathered} 42 \\ 104 \\ 43 \\ 14 \\ 65 \end{gathered}$ | $\begin{gathered} 14 \\ 27 \\ 12 \\ 5 \\ 12 \end{gathered}$ |  |
| b | Beaches | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 27 \\ 29 \\ 10 \\ 2 \\ 2 \end{gathered}$ | $\begin{gathered} 93 \\ 102 \\ 39 \\ 9 \\ 25 \end{gathered}$ | $-0.06[-0.10,-0.0079]$ | $\begin{gathered} 106 \\ 113 \\ 29 \\ 5 \\ 15 \end{gathered}$ | $\begin{gathered} 14 \\ 18 \\ 20 \\ 6 \\ 12 \end{gathered}$ | $\begin{gathered} 0.19[0.098,0.28] \\ 0.16[0.060,0.26] \\ -0.18[-0.27,-0.085] \\ -0.070[-0.13,-0.018] \\ -0.12[-0.20,-0.043] \end{gathered}$ |
| c | The coast | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 30 \\ 26 \\ 9 \\ 1 \\ 4 \end{gathered}$ | $\begin{aligned} & 101 \\ & 101 \\ & 29 \\ & 10 \\ & 27 \end{aligned}$ | $\begin{gathered} - \\ - \\ - \\ - \\ -0.060[-0.11,-0.015] \end{gathered}$ | $\begin{gathered} 116 \\ 107 \\ 25 \\ 4 \\ 16 \end{gathered}$ | $\begin{gathered} 15 \\ 20 \\ 13 \\ 7 \\ 15 \end{gathered}$ | $\begin{gathered} 0.21[0.12,0.31] \\ 0.11[0.0072,0.21] \\ -0.10[-0.18,-0.016] \\ -0.090[-0.15,-0,030] \\ -0.17[-0.26,-0.092] \end{gathered}$ |
| d | The value of my property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 4 \\ 12 \\ 23 \\ 12 \\ 19 \end{gathered}$ | $\begin{gathered} 18 \\ 37 \\ 67 \\ 46 \\ 100 \end{gathered}$ |  | $\begin{aligned} & 19 \\ & 40 \\ & 71 \\ & 46 \\ & 92 \end{aligned}$ | $\begin{gathered} 3 \\ 9 \\ 19 \\ 12 \\ 27 \end{gathered}$ |  |
| e | The value of others' property | Yes, always <br> Often <br> Rarely | $\begin{gathered} 7 \\ 24 \\ 19 \end{gathered}$ | $\begin{aligned} & 24 \\ & 71 \\ & 67 \end{aligned}$ |  | $\begin{aligned} & 27 \\ & 85 \\ & 64 \end{aligned}$ | $\begin{gathered} 4 \\ 10 \\ 22 \end{gathered}$ | $0.17 \text { [0.082, 0.25] }$ |


|  |  | No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 19 \end{gathered}$ | $\begin{aligned} & 14 \\ & 92 \end{aligned}$ |  | $\begin{gathered} 9 \\ 83 \end{gathered}$ | $\begin{gathered} 6 \\ 28 \end{gathered}$ | $-0.060[-0.12,-0.0013]$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| f | Damage to my property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 9 \\ 16 \\ 21 \\ 9 \\ 15 \end{gathered}$ | $\begin{aligned} & 20 \\ & 50 \\ & 81 \\ & 40 \\ & 77 \end{aligned}$ |  | $\begin{aligned} & 25 \\ & 54 \\ & 82 \\ & 37 \\ & 70 \end{aligned}$ | $\begin{gathered} 4 \\ 12 \\ 20 \\ 12 \\ 22 \end{gathered}$ |  |
| g | Damage to others ${ }^{\prime}$ property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 11 \\ 23 \\ 20 \\ 1 \\ 15 \end{gathered}$ | $\begin{aligned} & 25 \\ & 90 \\ & 75 \\ & 16 \\ & 62 \end{aligned}$ |  | $\begin{gathered} 32 \\ 98 \\ 74 \\ 7 \\ 57 \end{gathered}$ | $\begin{gathered} 4 \\ 15 \\ 21 \\ 10 \\ 20 \end{gathered}$ | $\begin{gathered} 0.15[0.054,0.24] \\ - \\ -0.12[-0.19,-0.052] \end{gathered}$ |
| h | Nature/fauna/flora | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 31 \\ 28 \\ 8 \\ 1 \\ 2 \end{gathered}$ | $\begin{gathered} 105 \\ 110 \\ 21 \\ 12 \\ 20 \end{gathered}$ | - | $\begin{gathered} 123 \\ 112 \\ 18 \\ 4 \\ 11 \end{gathered}$ | $\begin{gathered} 13 \\ 26 \\ 11 \\ 9 \\ 11 \end{gathered}$ | $\begin{gathered} 0.27[0.17,0.36] \\ - \\ -0.090[-0.17,-0.020] \\ -0.12[-0.18,-0.052] \\ -0.12[-0.20,-0.048] \end{gathered}$ |
| i | Spread of alien species | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 22 \\ 22 \\ 12 \\ 1 \\ 13 \end{gathered}$ | $\begin{aligned} & 66 \\ & 94 \\ & 36 \\ & 13 \\ & 59 \end{aligned}$ |  | $\begin{gathered} 79 \\ 95 \\ 35 \\ 6 \\ 53 \end{gathered}$ | $\begin{gathered} 9 \\ 21 \\ 13 \\ 8 \\ 19 \end{gathered}$ | $\begin{gathered} 0.16[0.076,0.24] \\ - \\ - \\ -0.10[-0.16,-0.034] \end{gathered}$ |
| j | Permanent inundation of coastal areas | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 20 \\ 27 \\ 16 \\ 0 \\ 7 \end{gathered}$ | $\begin{aligned} & 77 \\ & 93 \\ & 44 \\ & 14 \\ & 40 \end{aligned}$ | $-0.040[-0.074,-0.011]$ | $\begin{gathered} 85 \\ 104 \\ 44 \\ 6 \\ 29 \end{gathered}$ | $\begin{gathered} 12 \\ 16 \\ 16 \\ 8 \\ 18 \end{gathered}$ | $\begin{gathered} 0.14[0.053,0.23] \\ 0.15[0.058,0.25] \\ - \\ -0.10[-0.16,-0.034] \\ -0.15[-0.24,-0.060] \end{gathered}$ |
| k | Opportunities for outdoor swimming | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 14 \\ 20 \\ 27 \\ 1 \\ 8 \end{gathered}$ | $\begin{aligned} & 51 \\ & 86 \\ & 58 \\ & 28 \\ & 45 \end{aligned}$ | $\begin{gathered} 0.17[0.067,0.27] \\ -0.080[-0.12,-0.036] \end{gathered}$ | $\begin{aligned} & 55 \\ & 90 \\ & 70 \\ & 15 \\ & 38 \end{aligned}$ | $\begin{aligned} & 10 \\ & 16 \\ & 15 \\ & 14 \\ & 15 \end{aligned}$ | $\begin{gathered} 0.10[0.0081,0.20] \\ - \\ -0.15[-0.23,-0.067] \end{gathered}$ |
| 1 | The temperature climate | Yes, always Often Rarely | $\begin{gathered} 27 \\ 33 \\ 6 \end{gathered}$ | $\begin{gathered} 93 \\ 113 \\ 20 \end{gathered}$ |  | $\begin{gathered} 110 \\ 119 \\ 15 \end{gathered}$ | 10 27 11 | $\begin{gathered} 0.26[0.17,0.34] \\ - \\ -0.10[-0.18,-0.032] \end{gathered}$ |


|  |  | No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 16 \\ & 26 \end{aligned}$ | $-0.060[-0.11,-0.011]$ | $\begin{gathered} 9 \\ 15 \end{gathered}$ | $\begin{gathered} 9 \\ 13 \end{gathered}$ | $\begin{aligned} & -0.10[-0.17,-0.033] \\ & -0.13[-0.21,-0.053] \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| m | Insects indoors | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 11 \\ 21 \\ 19 \\ 1 \\ 18 \end{gathered}$ | $\begin{gathered} 33 \\ 61 \\ 43 \\ 29 \\ 102 \end{gathered}$ | $\begin{gathered} 0.11[0.020,0.21] \\ -0.080[-0.13,-0.040] \\ -0.12[-0.22,-0.021] \end{gathered}$ | $\begin{aligned} & 38 \\ & 64 \\ & 51 \\ & 17 \\ & 98 \end{aligned}$ | $\begin{gathered} 6 \\ 18 \\ 11 \\ 13 \\ 22 \end{gathered}$ | $-0.13[-0.21,-0.049]$ |
| n | Health | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 14 \\ 36 \\ 16 \\ 0 \\ 4 \end{gathered}$ | $\begin{gathered} 50 \\ 104 \\ 50 \\ 18 \\ 46 \end{gathered}$ | $\begin{gathered} 0.12[0.014,0.23] \\ - \\ -0.060[-0.091,-0.024] \\ -0.11[-0.17,-0.043] \end{gathered}$ | $\begin{gathered} 55 \\ 118 \\ 54 \\ 8 \\ 33 \end{gathered}$ | $\begin{gathered} 9 \\ 22 \\ 12 \\ 10 \\ 17 \end{gathered}$ | $\begin{gathered} 0.12[0.018,0.22] \\ - \\ -0.12[-0.19,-0.047] \\ -0.12[-0.21,-0.034] \end{gathered}$ |
| o | Expenses for the municipality | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 33 \\ 23 \\ 8 \\ 2 \\ 4 \end{gathered}$ | $\begin{gathered} 98 \\ 107 \\ 23 \\ 8 \\ 32 \end{gathered}$ |  | $\begin{gathered} 112 \\ 113 \\ 21 \\ 4 \\ 18 \end{gathered}$ | $\begin{gathered} 19 \\ 17 \\ 10 \\ 6 \\ 18 \end{gathered}$ | $\begin{gathered} 0.14[0.041,0.24] \\ 0.17[0.075,0.27] \\ - \\ -0.070[-0.13,-0.021] \\ -0.19[-0.28,-0.10] \end{gathered}$ |
| p | Heating | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 16 \\ 26 \\ 17 \\ 1 \\ 10 \end{gathered}$ | $\begin{aligned} & 55 \\ & 83 \\ & 54 \\ & 25 \\ & 51 \end{aligned}$ | $-0.070[-0.11,-0.027]$ | $\begin{aligned} & 65 \\ & 89 \\ & 57 \\ & 16 \\ & 41 \end{aligned}$ | $\begin{gathered} 6 \\ 20 \\ 14 \\ 10 \\ 20 \end{gathered}$ | $\begin{gathered} 0.15[0.077,0.22] \\ - \\ - \\ -0.090[-0.16,-0.015] \\ -0.13[-0.23,0.042] \end{gathered}$ |
| q | Taxes | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 20 \\ 21 \\ 13 \\ 0 \\ 16 \end{gathered}$ | $\begin{aligned} & 54 \\ & 83 \\ & 35 \\ & 13 \\ & 83 \end{aligned}$ | $\begin{gathered} - \\ - \\ - \\ -0.040[-0.070,-0.0074] \end{gathered}$ | $\begin{gathered} 60 \\ 88 \\ 40 \\ 5 \\ 75 \end{gathered}$ | $\begin{gathered} 14 \\ 16 \\ 8 \\ 8 \\ 24 \end{gathered}$ | $\begin{gathered} 0.10[0.00083,0.19] \\ - \\ -0.10[-0.17,-0.039] \end{gathered}$ |
| r | Winter sports | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 15 \\ 27 \\ 6 \\ 6 \\ 16 \end{gathered}$ | $\begin{aligned} & 58 \\ & 93 \\ & 37 \\ & 28 \\ & 52 \end{aligned}$ |  | $\begin{aligned} & 69 \\ & 97 \\ & 31 \\ & 21 \\ & 50 \end{aligned}$ | $\begin{gathered} 4 \\ 23 \\ 12 \\ 13 \\ 18 \end{gathered}$ | $\begin{gathered} 0.19[0.13,0.26] \\ - \\ - \\ -0.11[-0.19,-0.031] \end{gathered}$ |
| S | Agriculture | Yes, always Often Rarely | $\begin{aligned} & 23 \\ & 30 \\ & 10 \end{aligned}$ | $\begin{gathered} 94 \\ 103 \\ 21 \end{gathered}$ | - | $\begin{gathered} 107 \\ 114 \\ 20 \end{gathered}$ | $\begin{aligned} & 10 \\ & 19 \\ & 11 \end{aligned}$ | $\begin{gathered} 0.25[0.16,0.33] \\ 0.15[0.052,0.25] \\ -0.09[-0.16,-0.012] \end{gathered}$ |


|  |  | No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{aligned} & 2 \\ & 5 \end{aligned}$ | $\begin{aligned} & 15 \\ & 35 \end{aligned}$ |  | $\begin{gathered} 4 \\ 23 \end{gathered}$ | $\begin{aligned} & 13 \\ & 17 \end{aligned}$ | $\begin{aligned} & -0.17[-0.25,-0.099] \\ & -0.16[-0.25,-0.073] \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| t | Tourism | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 13 \\ 19 \\ 19 \\ 5 \\ 14 \end{gathered}$ | $\begin{aligned} & 31 \\ & 70 \\ & 63 \\ & 22 \\ & 82 \end{aligned}$ | - - - - $-0.10[-0.19,-0.0095]$ | $\begin{aligned} & 38 \\ & 72 \\ & 66 \\ & 18 \\ & 74 \end{aligned}$ | $\begin{gathered} 6 \\ 17 \\ 16 \\ 9 \\ 22 \end{gathered}$ |  |
| u | Drinking water | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 18 \\ 28 \\ 15 \\ 1 \\ 8 \end{gathered}$ | $\begin{aligned} & 72 \\ & 86 \\ & 36 \\ & 14 \\ & 60 \end{aligned}$ | $-0.10[-0.18,-0.025]$ | $\begin{gathered} 82 \\ 92 \\ 41 \\ 5 \\ 48 \end{gathered}$ | $\begin{gathered} 8 \\ 22 \\ 10 \\ 10 \\ 20 \end{gathered}$ | $\begin{gathered} 0.18[0.11,0.26] \\ - \\ - \\ -0.13[-0.20,-0.061] \\ -0.11[-0.2,-0.013] \end{gathered}$ |
| v | The precipitation climate | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 25 \\ 32 \\ 7 \\ 1 \\ 5 \end{gathered}$ | $\begin{gathered} 90 \\ 101 \\ 25 \\ 13 \\ 39 \end{gathered}$ | - - - - $-0.07[-0.13,-0.0033]$ | $\begin{gathered} 108 \\ 105 \\ 22 \\ 5 \\ 28 \end{gathered}$ | $\begin{gathered} 7 \\ 28 \\ 10 \\ 9 \\ 16 \end{gathered}$ | $\begin{gathered} 0.29[0.22,0.37] \\ - \\ - \\ -0.11[-0.18,-0.047] \\ -0.13[-0.22,-0.044] \end{gathered}$ |
| X | The wind climate | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 24 \\ 30 \\ 8 \\ 2 \\ 6 \end{gathered}$ | $\begin{gathered} 76 \\ 99 \\ 26 \\ 9 \\ 58 \end{gathered}$ | - - - - $-0.12[-0.19,-0.052]$ | $\begin{gathered} 96 \\ 101 \\ 24 \\ 4 \\ 43 \end{gathered}$ | $\begin{gathered} 4 \\ 28 \\ 10 \\ 7 \\ 21 \end{gathered}$ | $\begin{gathered} 0.29[0.22,0.36] \\ - \\ - \\ -0.09[-0.15,-0.03] \\ -0.14[-0.24,-0.043] \end{gathered}$ |
| 6 | Do you expect longterm and global climate changes will lead to positive impacts in Malmö on: |  |  |  |  |  |  |  |
| a | Transports | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 2 \\ 21 \\ 25 \\ 22 \end{gathered}$ | $\begin{gathered} 7 \\ 17 \\ 53 \\ 116 \\ 75 \end{gathered}$ | $0.10[0.0072,0.20]$ | $\begin{gathered} 4 \\ 16 \\ 56 \\ 116 \\ 76 \end{gathered}$ | $\begin{gathered} 3 \\ 3 \\ 18 \\ 25 \\ 21 \end{gathered}$ |  |
| b | Beaches | Yes, always Often Rarely | $\begin{gathered} 1 \\ 10 \\ 23 \end{gathered}$ | $\begin{gathered} 7 \\ 14 \\ 64 \end{gathered}$ | $0.090[0.023,0.17]$ | $\begin{gathered} 4 \\ 18 \\ 71 \end{gathered}$ | $\begin{gathered} 4 \\ 6 \\ 16 \end{gathered}$ | $-0.05[-0.10,-0.0029]$ |


|  |  | No, never I do not know ${ }^{\text {b }}$ | $\begin{gathered} 29 \\ 7 \end{gathered}$ | $\begin{gathered} 139 \\ 44 \end{gathered}$ |  | $\begin{gathered} 143 \\ 32 \end{gathered}$ | $\begin{aligned} & 25 \\ & 19 \end{aligned}$ | $\begin{gathered} 0.17[0.071,0.28] \\ -0.15[-0.24,-0.061] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| c | The coast | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 7 \\ 19 \\ 36 \\ 8 \end{gathered}$ | $\begin{gathered} 4 \\ 10 \\ 63 \\ 141 \\ 50 \end{gathered}$ | $0.070[0.0073,0.13]$ | $\begin{gathered} 2 \\ 10 \\ 64 \\ 154 \\ 38 \end{gathered}$ | $\begin{gathered} 2 \\ 7 \\ 18 \\ 23 \\ 20 \end{gathered}$ | $\begin{gathered} -0.21[-0.29,-0.12] \\ - \\ 0.24[0.14,0.35] \\ -0.15[-0.24,-0.051] \end{gathered}$ |
| d | The value of my property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 3 \\ 19 \\ 25 \\ 23 \end{gathered}$ | $\begin{gathered} 2 \\ 9 \\ 45 \\ 110 \\ 102 \end{gathered}$ | $0.11[0.013,0.21]$ | $\begin{gathered} 1 \\ 7 \\ 49 \\ 110 \\ 101 \end{gathered}$ | $\begin{gathered} 1 \\ 5 \\ 15 \\ 25 \\ 24 \end{gathered}$ |  |
| e | The value of others' property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 5 \\ 19 \\ 22 \\ 24 \end{gathered}$ | $\begin{gathered} 4 \\ 11 \\ 51 \\ 98 \\ 104 \end{gathered}$ | - | $\begin{gathered} 2 \\ 11 \\ 56 \\ 96 \\ 103 \end{gathered}$ | $\begin{gathered} 2 \\ 5 \\ 14 \\ 24 \\ 25 \end{gathered}$ |  |
| f | Damage to my property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 1 \\ 18 \\ 29 \\ 21 \end{gathered}$ | $\begin{gathered} 2 \\ 5 \\ 34 \\ 135 \\ 92 \end{gathered}$ | $0.13[0.097,0.16]$ | $\begin{gathered} 1 \\ 1 \\ 38 \\ 138 \\ 90 \end{gathered}$ | $\begin{gathered} 2 \\ 5 \\ 14 \\ 26 \\ 23 \end{gathered}$ | $\begin{gathered} -0.07[-0.13,-0.022] \\ - \\ 0.14[0.035,0.25] \end{gathered}$ |
| g | Damage to others ${ }^{\prime}$ property | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 3 \\ 16 \\ 29 \\ 21 \end{gathered}$ | $\begin{gathered} 5 \\ 5 \\ 38 \\ 124 \\ 96 \end{gathered}$ | $0.090[0.0045,0.18]$ | $\begin{gathered} 3 \\ 3 \\ 39 \\ 131 \\ 92 \end{gathered}$ | $\begin{gathered} 3 \\ 5 \\ 15 \\ 22 \\ 25 \end{gathered}$ | $\begin{gathered} -0.07[-0.12,-0.016] \\ - \\ 0.17[0.069,0.27] \end{gathered}$ |
| h | Nature/fauna/flora | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 7 \\ 28 \\ 26 \\ 9 \end{gathered}$ | $\begin{gathered} 8 \\ 18 \\ 62 \\ 129 \\ 51 \end{gathered}$ | $0.17 \text { [0.068, 0.27] }$ | $\begin{gathered} 3 \\ 18 \\ 73 \\ 133 \\ 41 \end{gathered}$ | $\begin{gathered} 5 \\ 7 \\ 17 \\ 22 \\ 19 \end{gathered}$ | $\begin{gathered} -0.07[-0.12,-0.016] \\ - \\ - \\ 0.18[0.077,0.28] \\ -0.12[-0.22,-0.029] \end{gathered}$ |
| i | Spread of alien species | Yes, always Often Rarely | $\begin{gathered} 0 \\ 6 \\ 21 \end{gathered}$ | $\begin{gathered} 4 \\ 26 \\ 45 \end{gathered}$ | $0.13[0.035,0.23]$ | $\begin{gathered} 2 \\ 26 \\ 51 \end{gathered}$ | $\begin{gathered} 2 \\ 6 \\ 15 \end{gathered}$ |  |


|  |  | No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{aligned} & 27 \\ & 16 \end{aligned}$ | $\begin{gathered} 118 \\ 75 \end{gathered}$ |  | $\begin{gathered} 122 \\ 67 \end{gathered}$ | $\begin{aligned} & 23 \\ & 24 \end{aligned}$ | $0.12[0.020,0.23]$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| j | Permanent inundation of coastal areas | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 5 \\ 14 \\ 34 \\ 17 \end{gathered}$ | $\begin{gathered} 5 \\ 9 \\ 35 \\ 160 \\ 59 \end{gathered}$ | $\begin{gathered} - \\ - \\ - \\ -0.11[-0.22,-0.0044] \end{gathered}$ | $\begin{gathered} 3 \\ 9 \\ 38 \\ 161 \\ 57 \end{gathered}$ | $\begin{gathered} 2 \\ 5 \\ 11 \\ 33 \\ 19 \end{gathered}$ | $\begin{gathered} \overline{-} \\ - \\ - \\ 0.13[0.02,0.24] \end{gathered}$ |
| k | Opportunities for outdoor swimming | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 9 \\ 20 \\ 28 \\ 12 \end{gathered}$ | $\begin{gathered} 8 \\ 31 \\ 57 \\ 102 \\ 70 \end{gathered}$ |  | $\begin{gathered} 6 \\ 31 \\ 64 \\ 108 \\ 59 \end{gathered}$ | $\begin{gathered} 3 \\ 9 \\ 13 \\ 22 \\ 23 \end{gathered}$ | $-0.11[-0.21,-0.011]$ |
| 1 | The temperature climate | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 3 \\ 15 \\ 15 \\ 29 \\ 8 \end{gathered}$ | $\begin{gathered} 7 \\ 30 \\ 82 \\ 103 \\ 46 \end{gathered}$ | $0.10[0.017,0.19]$ | $\begin{gathered} 7 \\ 35 \\ 80 \\ 108 \\ 38 \end{gathered}$ | $\begin{gathered} 3 \\ 10 \\ 17 \\ 24 \\ 16 \end{gathered}$ | $\begin{gathered} - \\ - \\ - \\ - \\ -0.09[-0.18,-0.0031] \end{gathered}$ |
| m | Insects indoors | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 0 \\ 6 \\ 10 \\ 34 \\ 20 \end{gathered}$ | $\begin{gathered} 4 \\ 4 \\ 33 \\ 110 \\ 117 \end{gathered}$ | $\begin{gathered} 0.080[0.022,0.14] \\ - \\ - \\ -0.15[-0.25,-0.046] \end{gathered}$ | $\begin{gathered} 1 \\ 9 \\ 31 \\ 123 \\ 104 \end{gathered}$ | $\begin{gathered} 3 \\ 1 \\ 12 \\ 21 \\ 33 \end{gathered}$ | $\begin{gathered} -0.04[-0.089,-0.0056] \\ - \\ 0.15[0.050,0.25] \end{gathered}$ |
| n | Health | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 5 \\ 19 \\ 32 \\ 13 \end{gathered}$ | $\begin{gathered} 7 \\ 14 \\ 53 \\ 121 \\ 73 \end{gathered}$ |  | $\begin{gathered} 4 \\ 16 \\ 59 \\ 129 \\ 60 \end{gathered}$ | $\begin{gathered} 4 \\ 3 \\ 13 \\ 24 \\ 26 \end{gathered}$ | $\begin{gathered} -0.05[-0.10,-0.0029] \\ - \\ - \\ 0.14[0.032,0.24] \\ -0.15[-0.25,-0.044] \end{gathered}$ |
| o | Expenses for the municipality | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 2 \\ 4 \\ 19 \\ 34 \\ 11 \end{gathered}$ | $\begin{gathered} 8 \\ 7 \\ 50 \\ 129 \\ 74 \end{gathered}$ | $-0.11[-0.20,-0.029]$ | $\begin{gathered} 5 \\ 6 \\ 56 \\ 144 \\ 57 \end{gathered}$ | $\begin{gathered} 5 \\ 5 \\ 13 \\ 19 \\ 28 \end{gathered}$ | $\begin{gathered} -0.06[-0.11,-0.007] \\ -0.05[-0.11,-0.004] \\ - \\ 0.26[0.16,0.36] \\ -0.19[-0.29,-0.085] \end{gathered}$ |
| p | Heating | Yes, always <br> Often <br> Rarely | $\begin{gathered} 2 \\ 8 \\ 15 \end{gathered}$ | $\begin{aligned} & 11 \\ & 26 \\ & 60 \end{aligned}$ |  | $\begin{gathered} 8 \\ 31 \\ 59 \end{gathered}$ | $\begin{gathered} 5 \\ 3 \\ 16 \end{gathered}$ | $0.06[0.0083,0.12]$ |


|  |  | No, never I do not know ${ }^{\text {b }}$ | $\begin{aligned} & 27 \\ & 18 \end{aligned}$ | $\begin{gathered} 100 \\ 71 \end{gathered}$ |  | $\begin{gathered} 108 \\ 62 \end{gathered}$ | $\begin{aligned} & 19 \\ & 27 \end{aligned}$ | $\begin{gathered} 0.13[0.029,0.23] \\ -0.16[-0.26,-0.052] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| q | Taxes | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 2 \\ 2 \\ 12 \\ 34 \\ 20 \end{gathered}$ | $\begin{gathered} 10 \\ 10 \\ 37 \\ 122 \\ 89 \end{gathered}$ |  | $\begin{gathered} 3 \\ 8 \\ 41 \\ 137 \\ 79 \end{gathered}$ | $\begin{gathered} 9 \\ 4 \\ 8 \\ 19 \\ 30 \end{gathered}$ | $\begin{gathered} -0.12[-0.19,-0.056] \\ - \\ - \\ 0.24[0.13,0.33] \\ -0.13[-0.24,-0.028] \end{gathered}$ |
| r | Winter sports | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 3 \\ 5 \\ 14 \\ 31 \\ 17 \end{gathered}$ | $\begin{gathered} 4 \\ 17 \\ 50 \\ 135 \\ 62 \end{gathered}$ | - | $\begin{gathered} 4 \\ 19 \\ 42 \\ 147 \\ 56 \end{gathered}$ | $\begin{gathered} 3 \\ 3 \\ 22 \\ 19 \\ 23 \end{gathered}$ | $\begin{gathered} -0.16[-0.26,-0.061] \\ 0.27[0.17,0.37] \\ -0.12[-0.22,-0.021] \end{gathered}$ |
| S | Agriculture | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 3 \\ 11 \\ 15 \\ 28 \\ 13 \end{gathered}$ | $\begin{gathered} 6 \\ 26 \\ 72 \\ 107 \\ 57 \end{gathered}$ |  | $\begin{gathered} 5 \\ 32 \\ 69 \\ 119 \\ 43 \end{gathered}$ | $\begin{gathered} 4 \\ 5 \\ 18 \\ 16 \\ 27 \end{gathered}$ | - - - $0.21[0.11,0.30]$ $-0.23[-0.33,-0.13]$ |
| t | Tourism | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 16 \\ 17 \\ 21 \\ 15 \end{gathered}$ | $\begin{gathered} 9 \\ 31 \\ 58 \\ 84 \\ 86 \end{gathered}$ | $\begin{gathered} 0.12[0.030,0.20] \\ - \\ - \\ -0.10[-0.19,-0.0079] \end{gathered}$ | $\begin{gathered} 7 \\ 38 \\ 62 \\ 85 \\ 76 \end{gathered}$ | $\begin{gathered} 3 \\ 9 \\ 13 \\ 20 \\ 25 \end{gathered}$ |  |
| u | Drinking water | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 1 \\ 3 \\ 21 \\ 25 \\ 20 \end{gathered}$ | $\begin{gathered} 6 \\ 10 \\ 51 \\ 127 \\ 74 \end{gathered}$ | $\begin{gathered} - \\ - \\ 0.11[0.017,0.21] \\ -0.11[-0.22,-0.0089] \end{gathered}$ | $\begin{gathered} 5 \\ 9 \\ 59 \\ 129 \\ 66 \end{gathered}$ | $\begin{gathered} 2 \\ 4 \\ 13 \\ 23 \\ 28 \end{gathered}$ | $\begin{gathered} - \\ - \\ - \\ 0.15[0.048,0.25] \\ -0.15[-0.26,-0.051] \end{gathered}$ |
| v | The precipitation climate | Yes, always <br> Often <br> Rarely <br> No, never <br> I do not know ${ }^{\text {b }}$ | $\begin{gathered} 2 \\ 3 \\ 17 \\ 35 \\ 13 \end{gathered}$ | $\begin{gathered} 5 \\ 11 \\ 54 \\ 133 \\ 65 \end{gathered}$ |  | $\begin{gathered} 4 \\ 12 \\ 55 \\ 146 \\ 51 \end{gathered}$ | $\begin{gathered} 3 \\ 2 \\ 16 \\ 22 \\ 27 \end{gathered}$ | $\begin{gathered} - \\ - \\ - \\ 0.23[0.12,0.33] \\ -0.20[-0.30,-0.095] \end{gathered}$ |
| x | The wind climate | Yes, always Often Rarely | $\begin{gathered} 1 \\ 3 \\ 18 \end{gathered}$ | $\begin{gathered} 6 \\ 12 \\ 51 \end{gathered}$ |  | $\begin{gathered} 4 \\ 13 \\ 55 \end{gathered}$ | $\begin{gathered} 3 \\ 2 \\ 14 \end{gathered}$ | - |


|  |  | No, never | I do not know |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Table S2. Model errors of univariate BART models of decisions in favour of adaptation to the impacts of climate change and mitigation of climate change. Each model is based on 250 burn-in and 1000 posterior samples.

| BART model of decisions in favour of <br> adaptation | Adaptation predicted | No adaptation predicted | Model errors |
| :--- | :---: | :---: | :---: |
| Has adapted | 48 | 22 | 0.314 |
| Has not adapted | 98 | 170 | 0.366 |
|  | 0.671 | 0.115 | 0.355 |
| BART model of decisions in favour of <br> mitigation | Mitigation predicted | No mitigation predicted |  |
| Has mitigated | 241 | 27 |  |
| Has not mitigated | 39 | 31 | 0.101 |
|  | 0.139 | 0.466 | 0.557 |

