**Table S5.** Ranked summary of AICc support for de-trended climate models and the null model (YEAR + AGE) predicting (A) male arrival (n=210) and (B) female clutch initiation dates (n=177) for yellow warblers in Revelstoke, British Columbia.

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| **A) Male Arrival**  |
| **Period** | **Model #** | **Variables** | **r2** | **K** | **AIC.c** | **∆AICc** | **ωi** |
| Migration | 3b | (Year) + *U-WIND* + AGE + *U-WIND\**AGE | 0.18 | 6 | 1460.48 | 0 | 0.357 |
| Migration | 3a | (Year) + *U-WIND* + AGE | 0.17 | 5 | 1461.95 | 1.47 | 0.171 |
| Winter | 1a | (Year) + *SOIMAY-AUG* + AGE | 0.17 | 5 | 1462.75 | 2.28 | 0.114 |
| Winter | 1b | (Year) + *SOIMAY-AUG* + AGE + *SOIMAY-AUG*\*AGE | 0.17 | 6 | 1462.89 | 2.41 | 0.107 |
| Migration | 5a | (Year) + *U-WIND* + *V-WIND* + AGE | 0.17 | 6 | 1463.19 | 2.72 | 0.092 |
| - | - | YEAR (nominal) + AGE | 0.18 | 9 | 1464.32 | 3.84 | 0.052 |
| Migration | 5b | (Year) + *U-WIND* + *V-WIND* + AGE + *V-WIND\**AGE + *U-WIND\**AGE | 0.18 | 8 | 1464.36 | 3.88 | 0.051 |
| Winter | 2a | (Year) + *SOIDEC-MAR* + AGE | 0.16 | 5 | 1465.32 | 4.84 | 0.032 |
| Winter | 2b | (Year) + *SOIDEC-MAR* + *SOI DEC-MAR*\*AGE | 0.16 | 6 | 1466.16 | 5.68 | 0.021 |
| Migration | 4a | (Year) + *V-WIND* + AGE | 0.13 | 5 | 1471.33 | 10.85 | 0.002 |
| Migration | 4b | (Year) + *V-WIND* + AGE + *V-WIND\**AGE | 0.14 | 6 | 1472.05 | 11.57 | 0.001 |
| Breeding | 7b | (Year) + *MAY****°****C* + AGE + *MAY****°****C*\*AGE | 0.12 | 6 | 1475.59 | 15.12 | 0 |
| Breeding | 7a | (Year) + *MAY****°****C* + AGE | 0.12 | 5 | 1475.61 | 15.13 | 0 |
| Migration | 6a | (Year) + *MIGRATION RAIN* + AGE | 0.12 | 5 | 1476.05 | 15.57 | 0 |
| Migration | 6b | (Year) + *MIGRATION RAIN* + *MIG RAIN*\*AGE | 0.11 | 6 | 1478.17 | 17.69 | 0 |
| **B) Female Clutch Initiation Date** |
| **Period** | **Model #** | **Variables** | **r2** | **K** | **AIC.c** | **∆AICc** | **ωi** |
| Migration | 5a | (Year) + *U-WIND* + *V-WIND* + AGE | 0.15 | 6 | 1196.13 | 0 | 0.243 |
| Migration | 3b | (Year) + *U-WIND* + AGE + *U-WIND\**AGE | 0.15 | 6 | 1197.04 | 0.91 | 0.154 |
| Migration | 3a | (Year) + *U-WIND* + AGE | 0.14 | 5 | 1197.75 | 1.63 | 0.108 |
| Breeding | 7a | (Year) + *MAY****°****C* + AGE | 0.14 | 5 | 1197.76 | 1.64 | 0.107 |
| - | - | YEAR (nominal) + AGE | 0.16 | 9 | 1197.90 | 1.769 | 0.100 |
| Migration | 5b | (Year) + *U-WIND* + *V-WIND* + AGE + *V-WIND\**AGE + *U-WIND\**AGE | 0.16 | 8 | 1197.96 | 1.829 | 0.097 |
| Breeding | 7b | (Year) + *MAY****°****C* + AGE + *MAY****°****C*\*AGE | 0.14 | 6 | 1199.42 | 3.297 | 0.047 |
| Migration | 6a | (Year) + *MIGRATION RAIN* + AGE | 0.13 | 5 | 1200.20 | 4.069 | 0.032 |
| Winter | 1a | (Year) + *SOIMAY-AUG* + AGE | 0.13 | 5 | 1200.84 | 4.718 | 0.023 |
| Winter | 2a | (Year) + *SOIDEC-MAR* + AGE | 0.13 | 5 | 1200.87 | 4.74 | 0.023 |
| Winter | 2b | (Year) + *SOIDEC-MAR* + *SOI DEC-MAR*\*AGE | 0.13 | 6 | 1201.32 | 5.191 | 0.018 |
| Migration | 4a | (Year) + *V-WIND* + AGE | 0.12 | 5 | 1201.33 | 5.204 | 0.018 |
| Migration | 6b | (Year) + *MIGRATION RAIN* + *MIG RAIN*\*AGE | 0.13 | 6 | 1201.88 | 5.757 | 0.014 |
| Migration | 4b | (Year) + *V-WIND* + AGE + *V-WIND\**AGE | 0.12 | 6 | 1202.55 | 6.426 | 0.010 |
| Winter | 1b | (Year) + *SOIMAY-AUG* + AGE + *SOIMAY-AUG*\*AGE | 0.12 | 6 | 1202.85 | 6.725 | 0.008 |