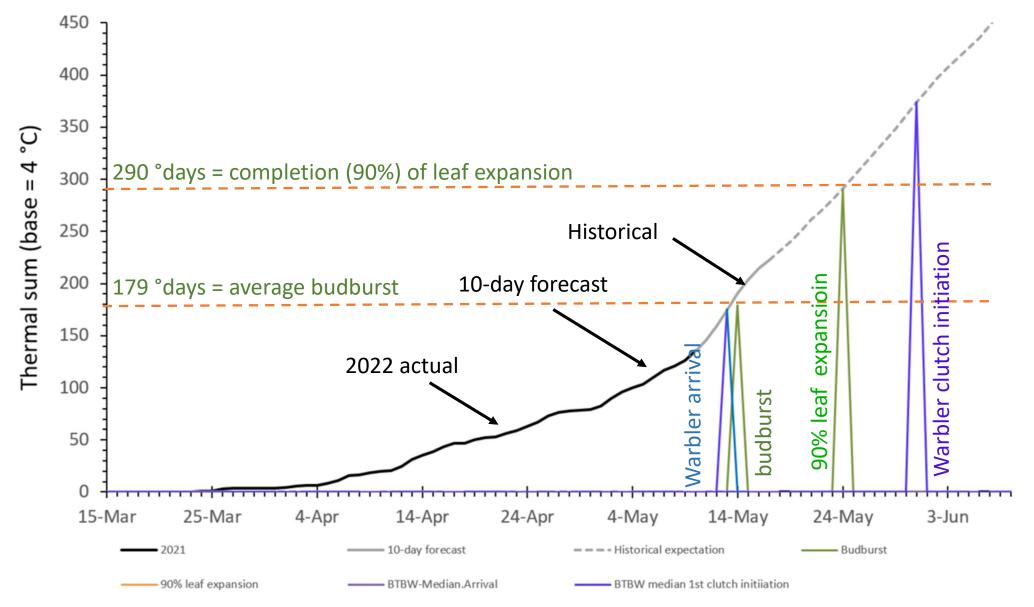
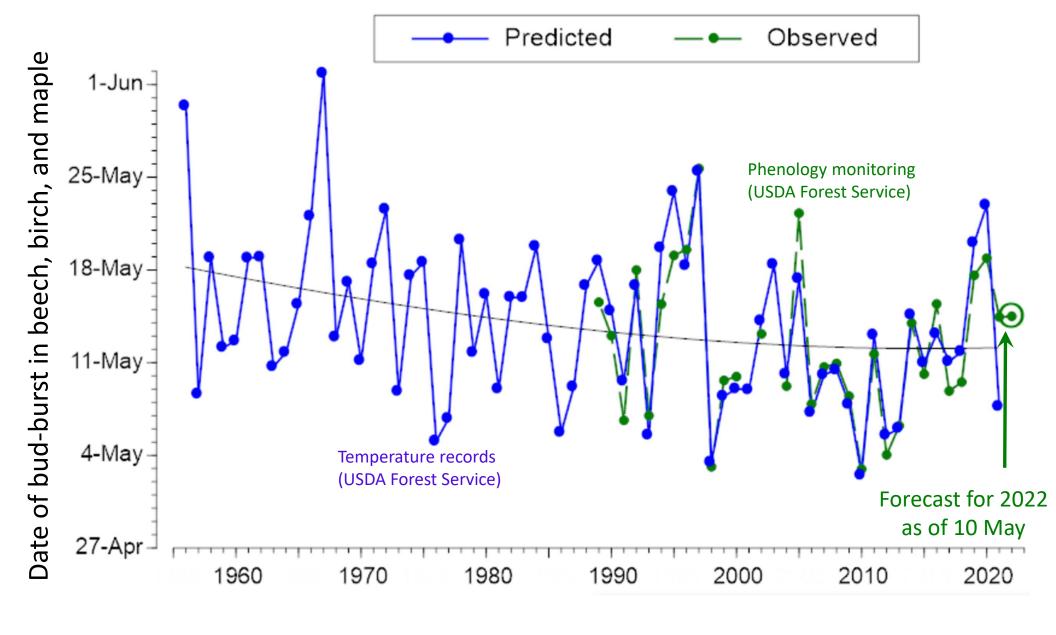
Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 10 May 2022, predicted dates for budburst and 90% completion of leaf expansion are: 14 May and 24 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 31 May.



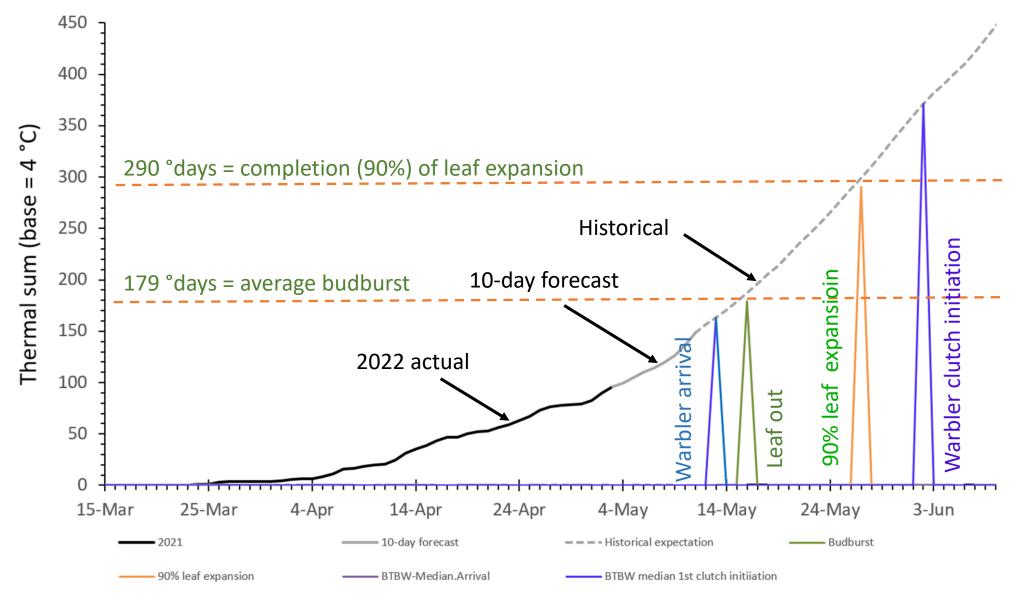
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



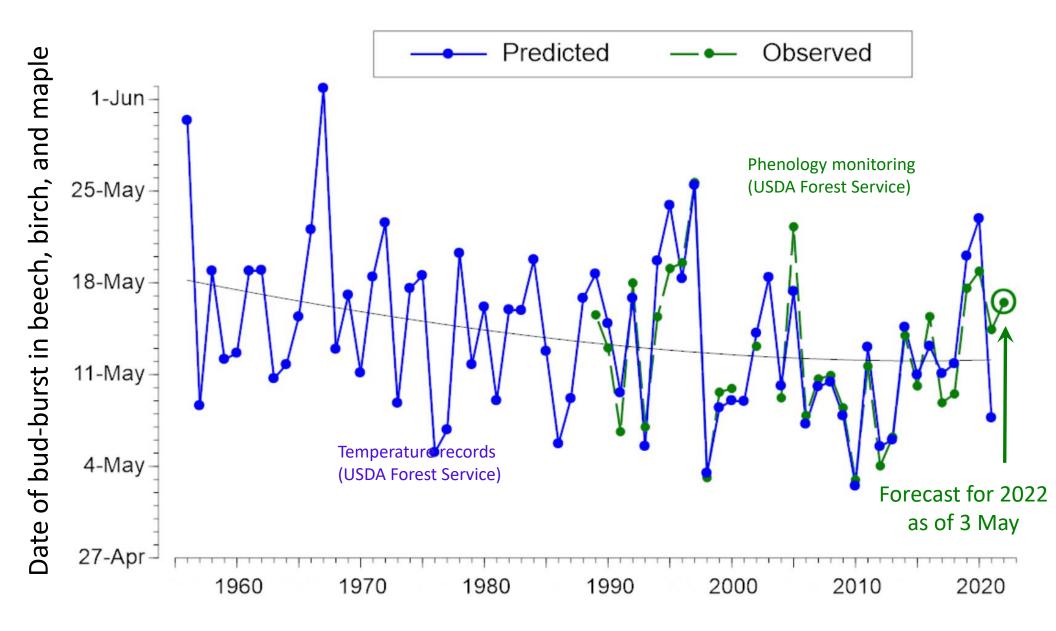
As of 10 May 2022, the forecast date of leafout is 14 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 3 May 2022, predicted dates for budburst and 90% completion of leaf expansion are: 16 May and 27 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 2 June.



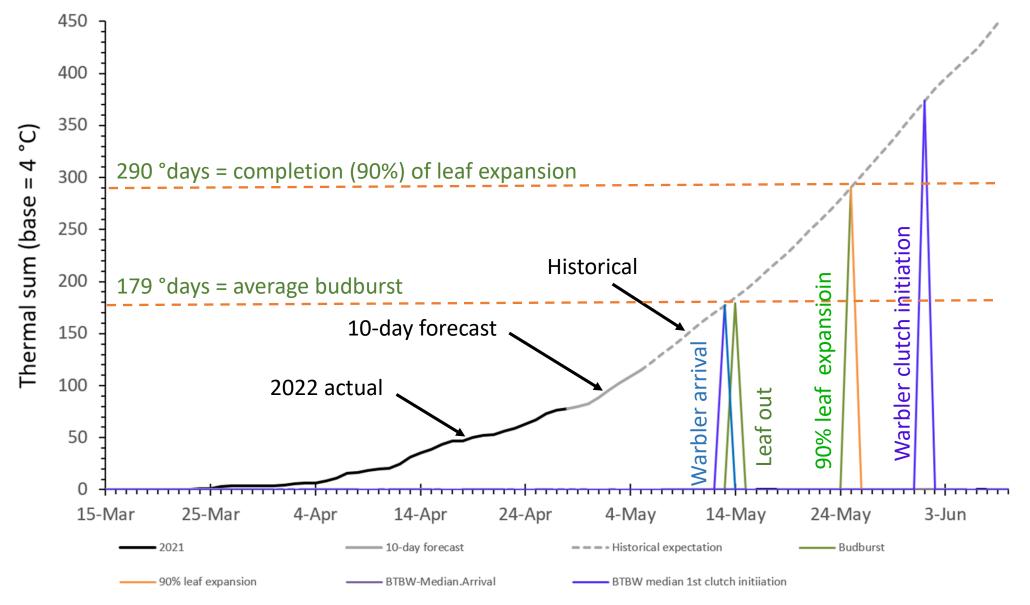
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



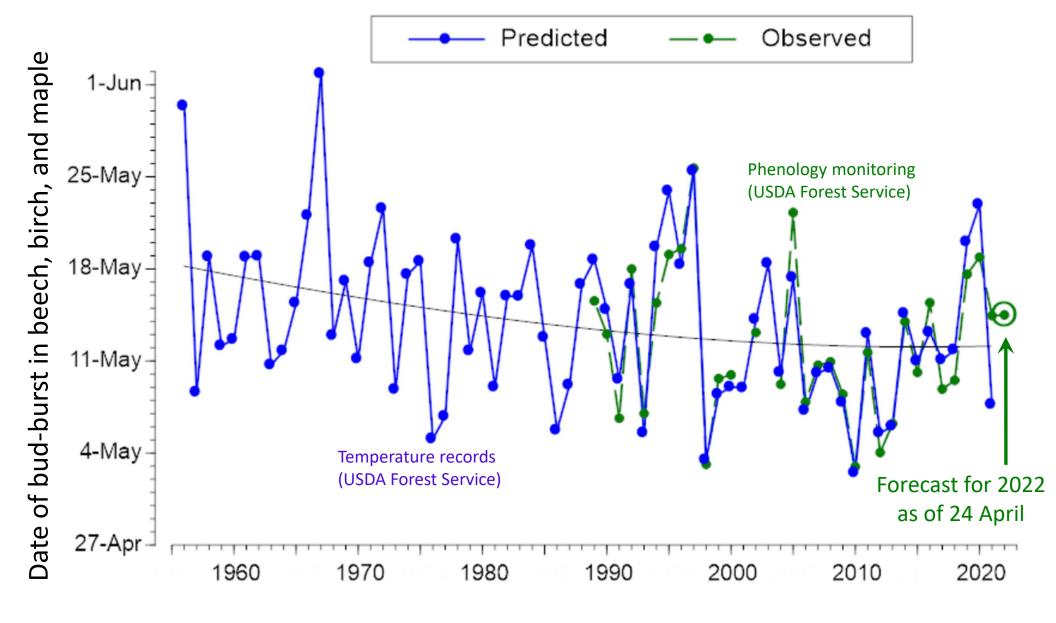
As of 3 May 2022, the forecast date of leafout is 16 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 28 April 2022, predicted dates for budburst and 90% completion of leaf expansion are: 14 May and 25 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 1 June.



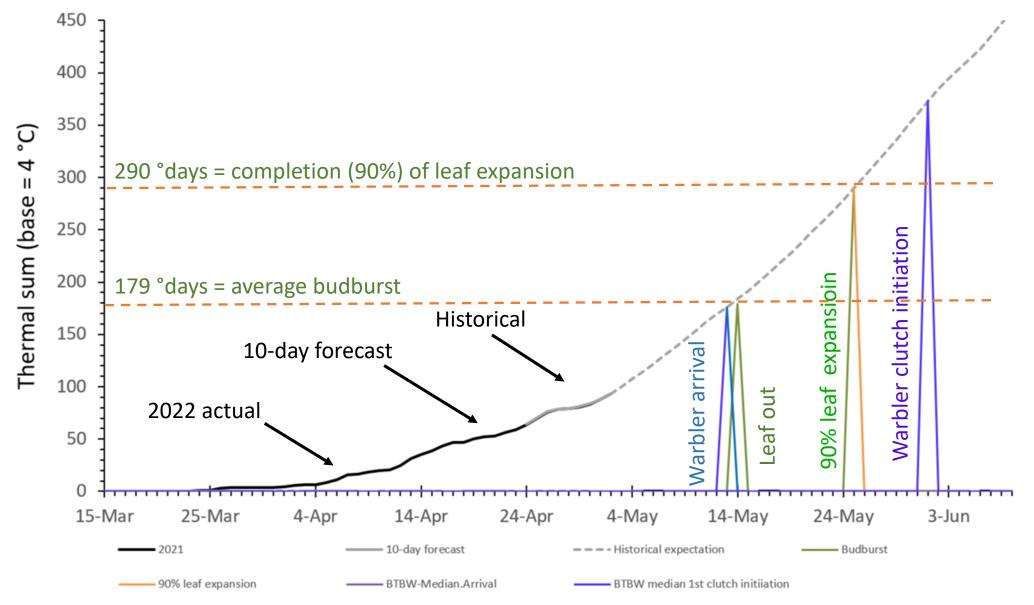
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



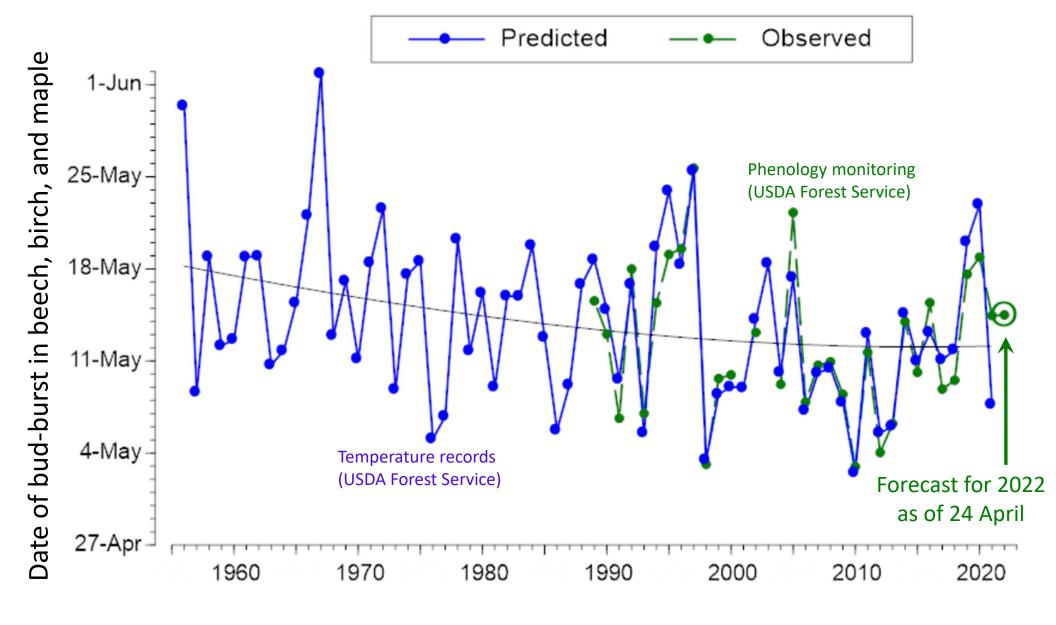
As of 28 April 2022, the forecast date of leafout is 14 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 24 April 2022, predicted dates for budburst and 90% completion of leaf expansion are: 14 May and 25 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 1 June.



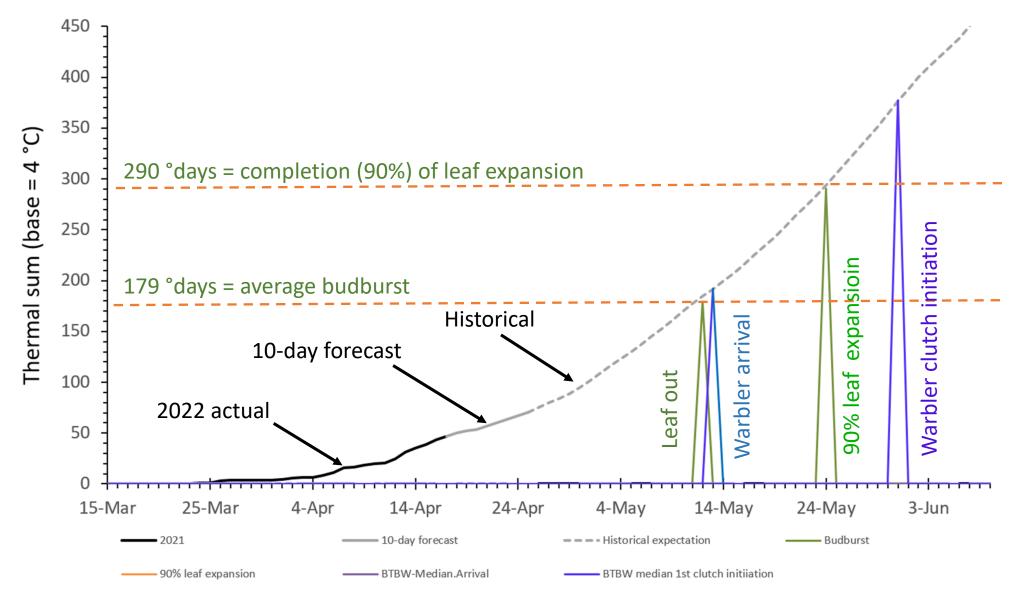
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



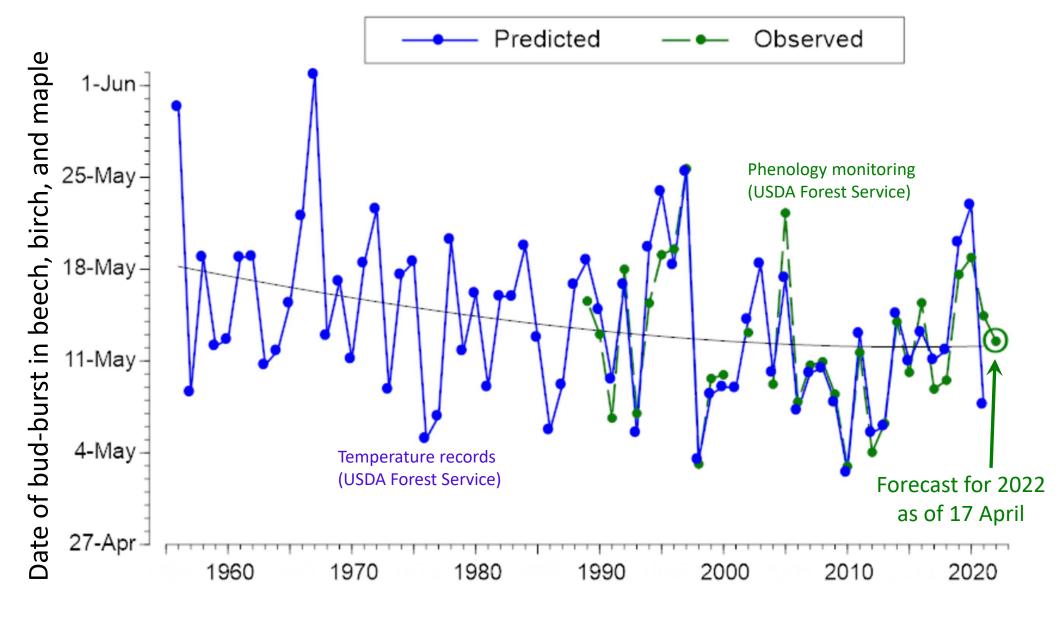
As of 24 April 2022, the forecast date of leafout is 14 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 17 April 2022, predicted dates for budburst and 90% completion of leaf expansion are: 12 May and 24 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 31 May.



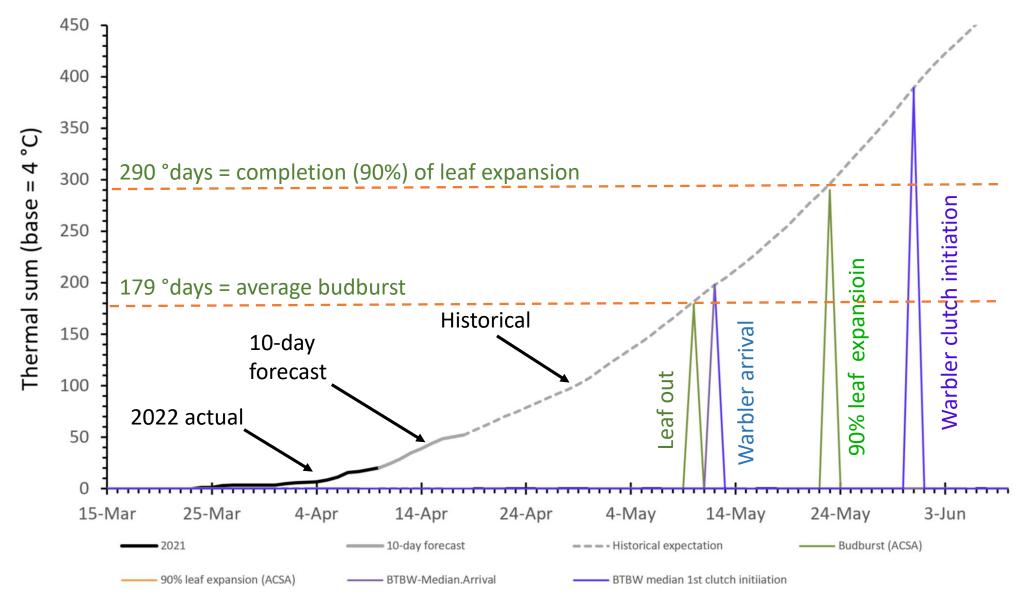
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



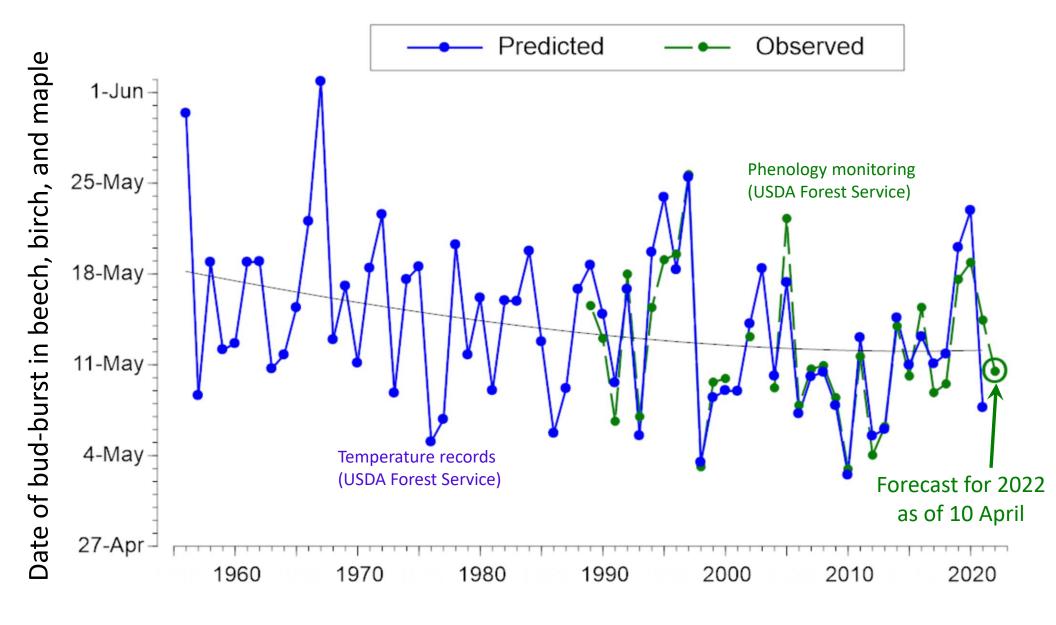
As of 17 April 2022, the forecast date of leafout is 12 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 10 April 2022, predicted dates for budburst and 90% completion of leaf expansion are: 10 May and 23 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 12 May and 31 May.



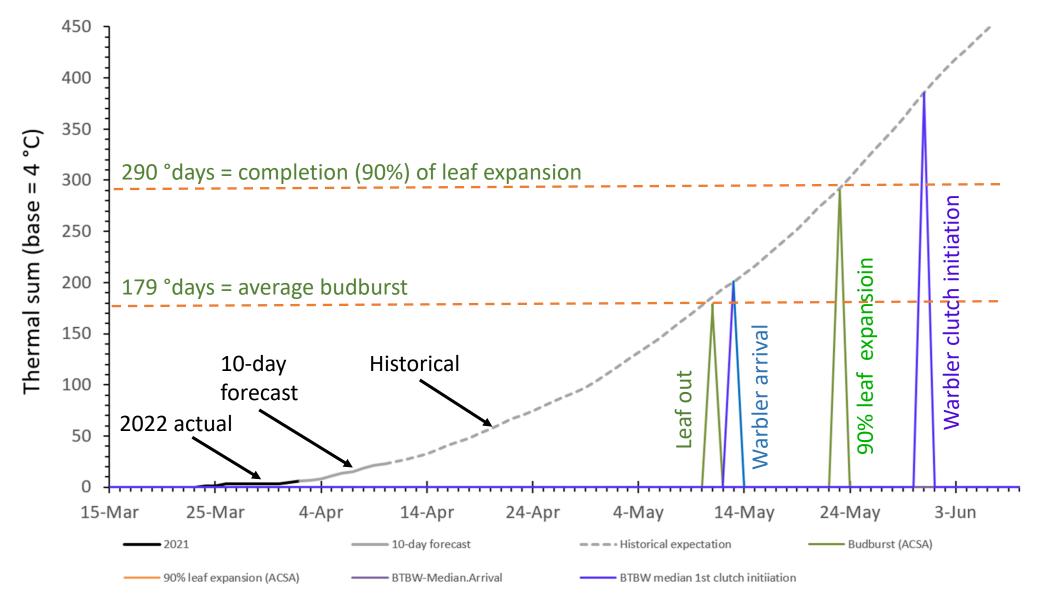
Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



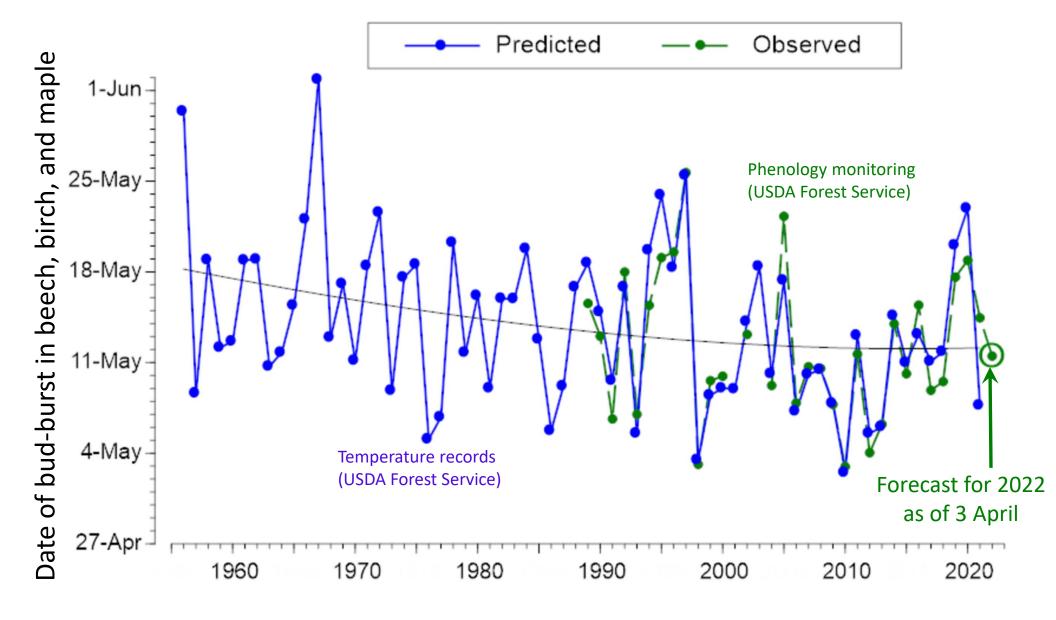
As of 10 April 2022, the forecast date of leafout is 10 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2022 based on thermal sums. As of 3 April 2022, predicted dates for budburst and 90% completion of leaf expansion are: 11 May and 23 May.

Predicted median dates of Arrival and 1st clutch initiation by Black-throated Blue Warblers are: 13 May and 31 May.



Real-time temperature records from USDA National Water & Climate Center (site 2069). Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



As of 3 April 2022, the forecast date of leafout is 11 May for mid-elevation bird plots at Hubbard Brook.

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