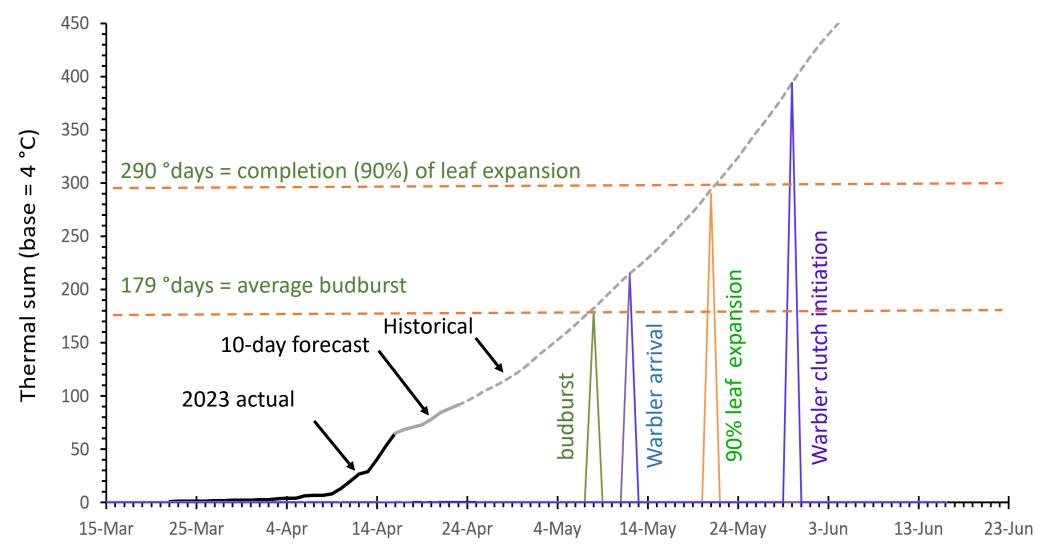
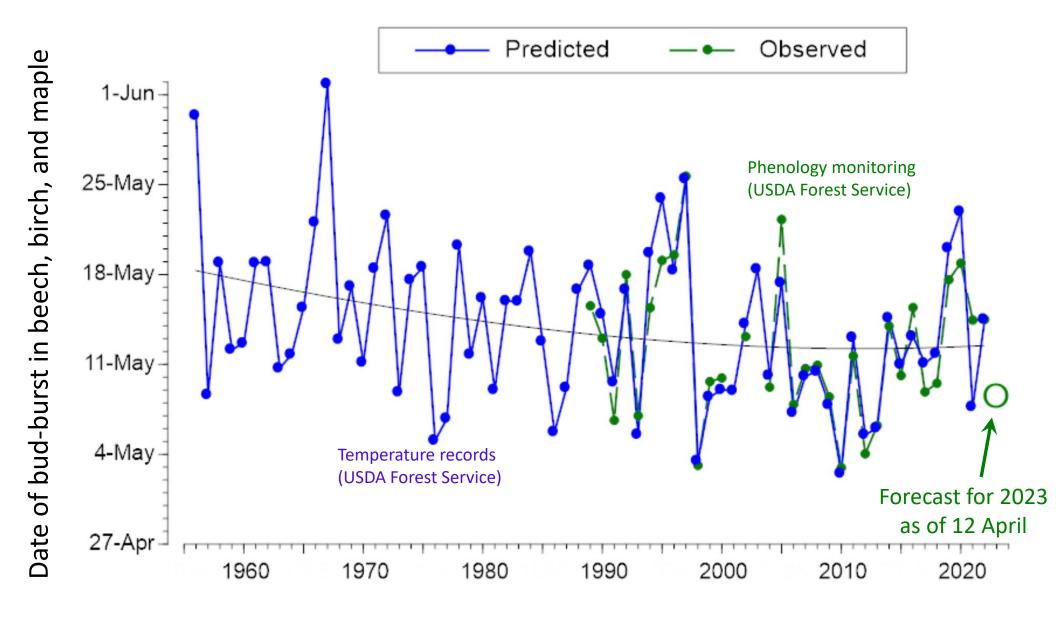
Estimated leaf-out phenology for mid-elevation Bird Plot in 2023 based on thermal sums. As of 16 April 2023, predicted dates for budburst and 90% completion of leaf expansion are: 8 May and 21 May.

Predicted median dates of arrival and 1<sup>st</sup> clutch initiation by Black-throated Blue Warblers are: 12 May and 30 May.



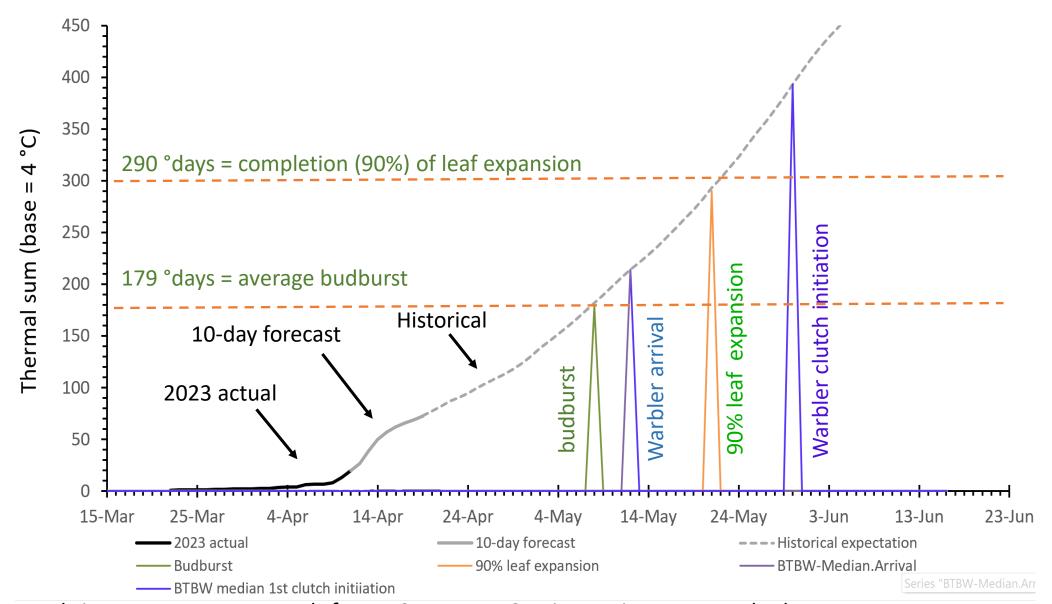
Real-time temperature records from USDA Forest Service station at Watershed 1. Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



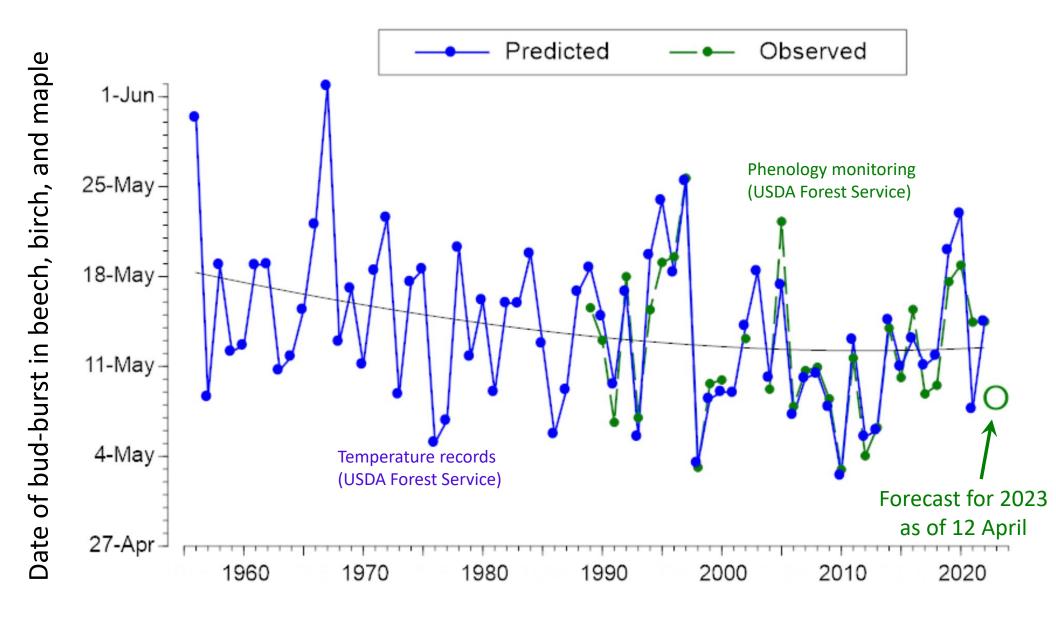
As of 16 April 2023, the forecast date of leafout is 8 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2023 based on thermal sums. As of 12 April 2023, predicted dates for budburst and 90% completion of leaf expansion are: 8 May and 21 May.

Predicted median dates of arrival and 1<sup>st</sup> clutch initiation by Black-throated Blue Warblers are: 12 May and 30 May.



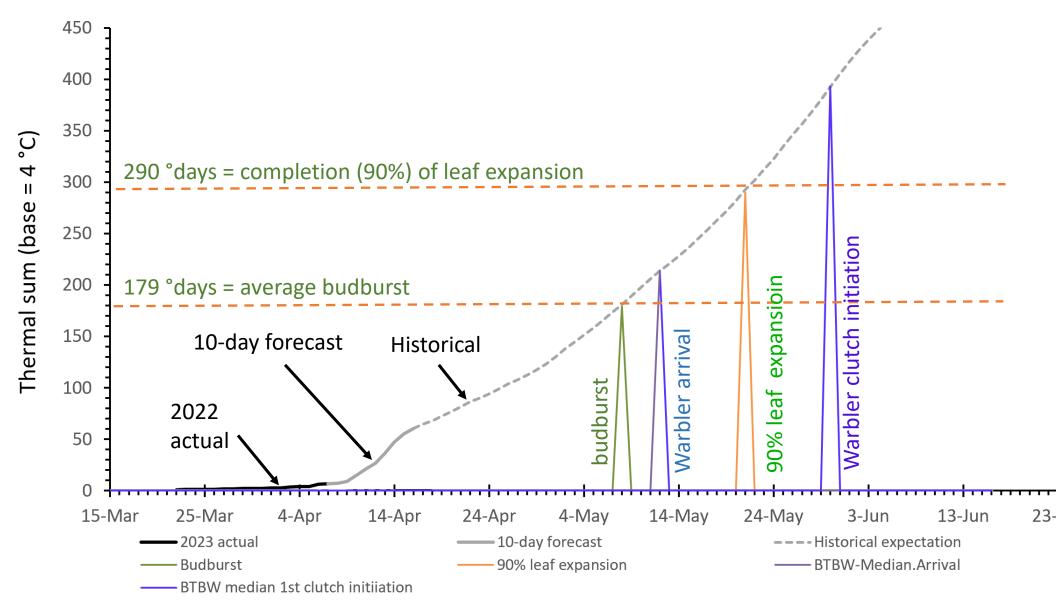
Real-time temperature records from USDA Forest Service station at Watershed 1. Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



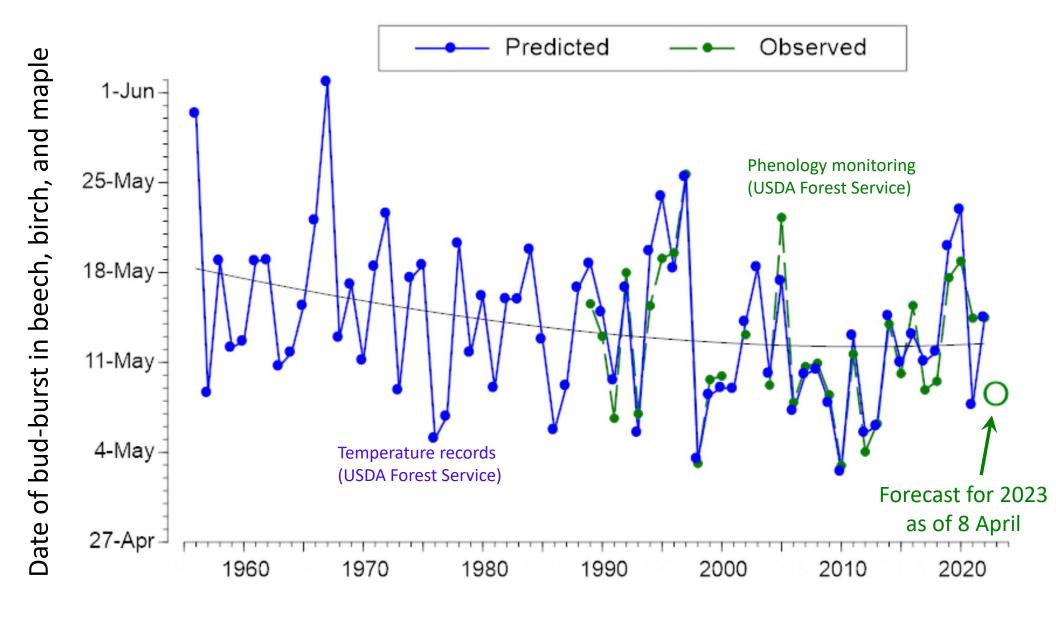
As of 12 April 2023, the forecast date of leafout is 8 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2023 based on thermal sums. As of 8 April 2023, predicted dates for budburst and 90% completion of leaf expansion are: 8 May and 21 May.

Predicted median dates of arrival and 1<sup>st</sup> clutch initiation by Black-throated Blue Warblers are: 12 May and 30 May.



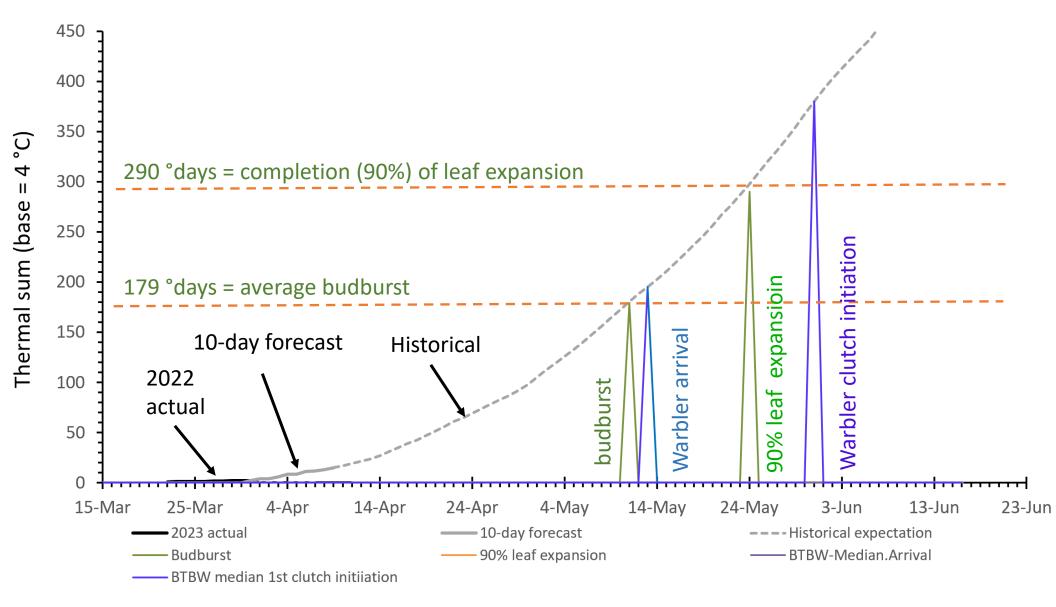
Real-time temperature records from USDA Forest Service station at Watershed 1. Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



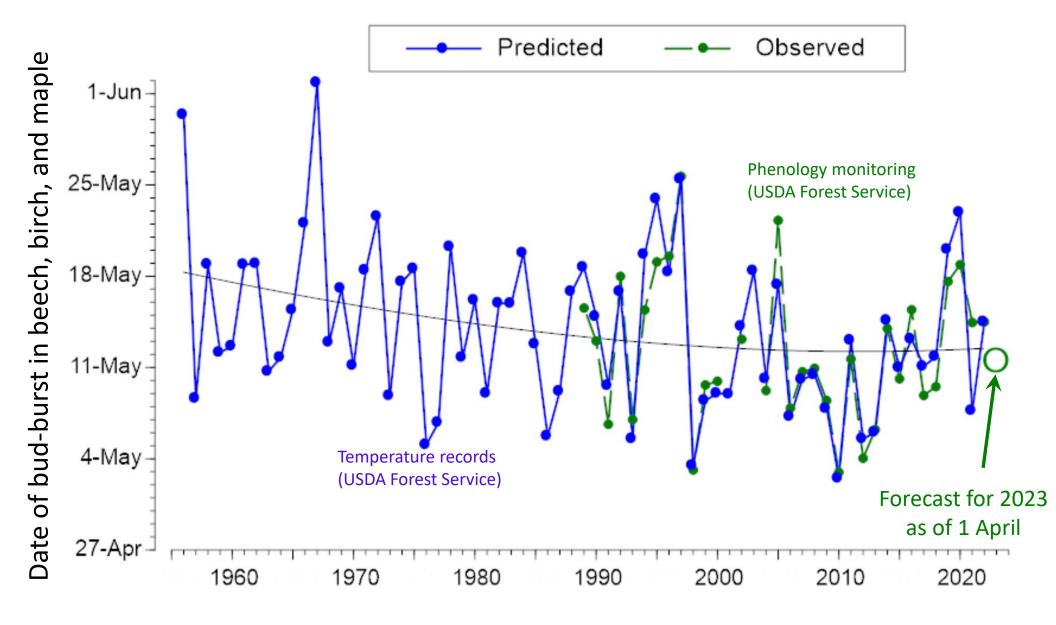
As of 8 April 2023, the forecast date of leafout is 8 May for mid-elevation bird plots at Hubbard Brook.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2023 based on thermal sums. As of 1 April 2023, predicted dates for budburst and 90% completion of leaf expansion are: 11 May and 24 May.

Predicted median dates of arrival and 1<sup>st</sup> clutch initiation by Black-throated Blue Warblers are: 13 May and 31 May.



Real-time temperature records from USDA Forest Service station at Watershed 1. Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



As of 1 April 2023, the forecast date of leafout is 11 May for mid-elevation bird plots at Hubbard Brook.

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