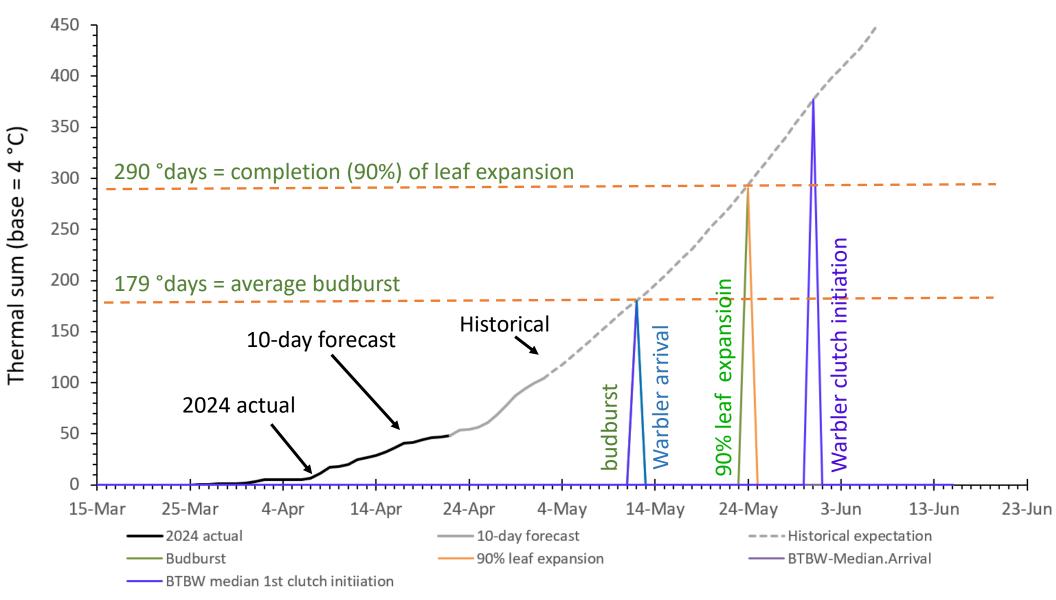
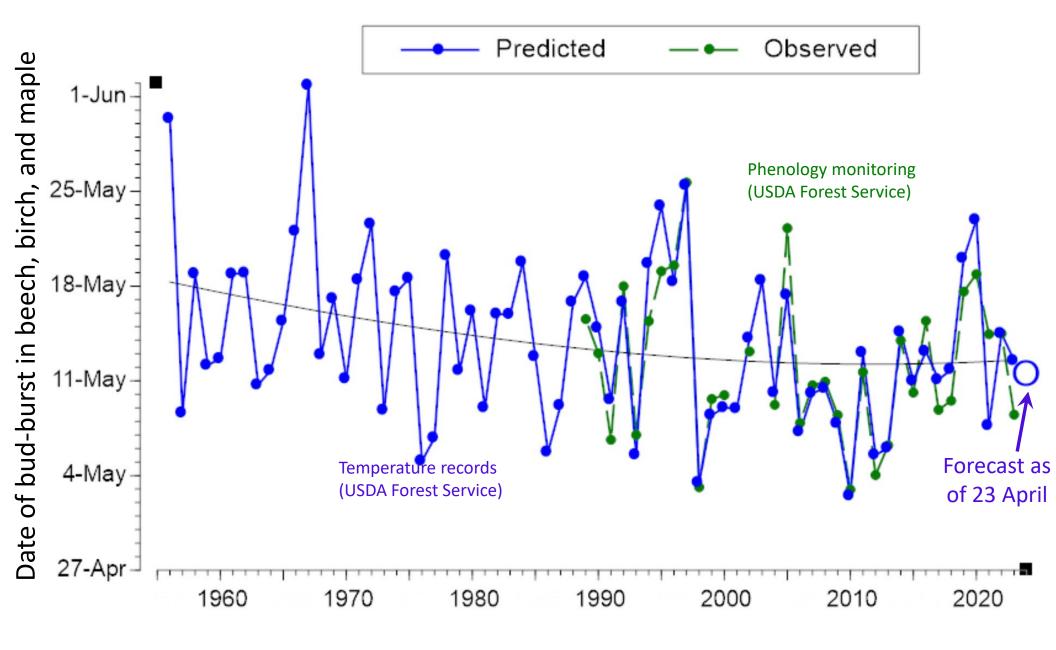
Estimated leaf-out phenology for mid-elevation Bird Plot in 2024 based on thermal sums. As of 23 April, 2024, predicted dates for budburst and 90% completion of leaf expansion are: 12 May and 24 May.

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

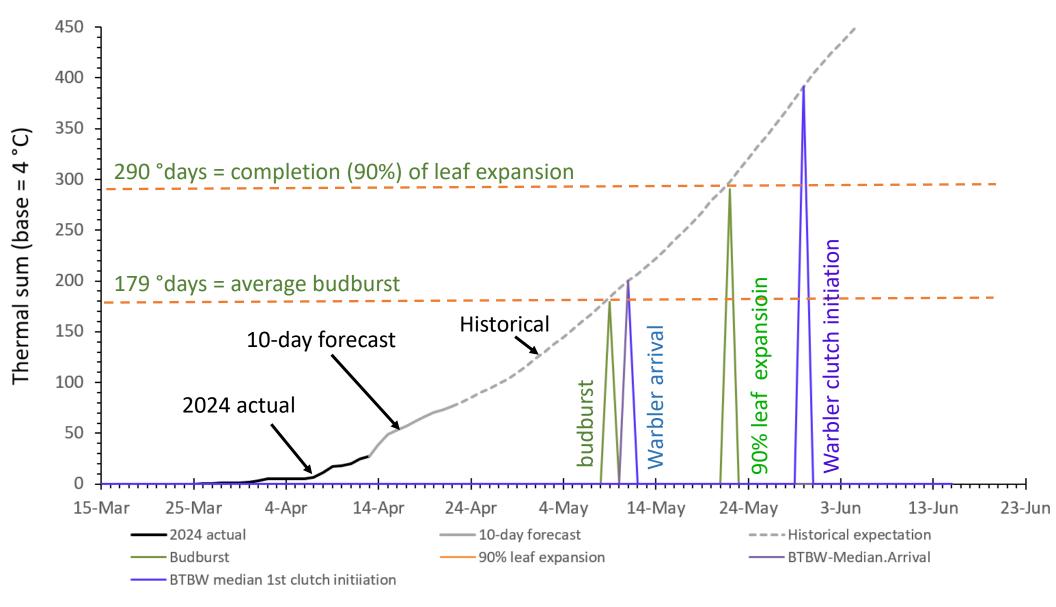


As of 23 April 2024, the forecast date of leafout is 12 May for mid-elevation bird plots at Hubbard Brook.

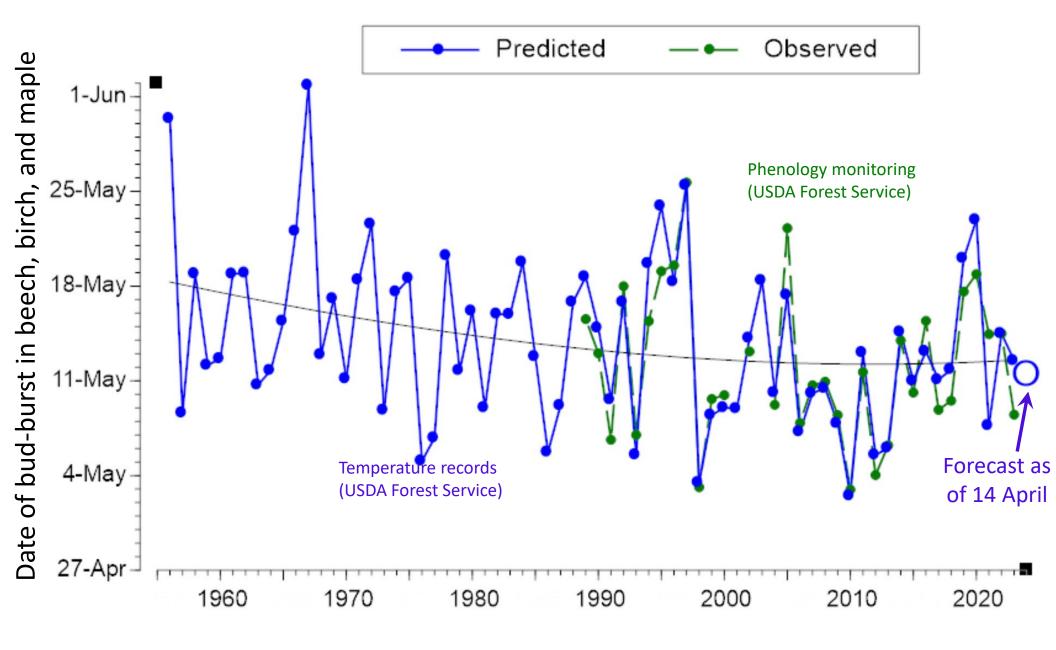
Phenology measurements by Northern Research Station, USDA Forest Service. Leaf phenology model adapted from Nina Lany et al. 2016, *Oikos*. Analyses by Matt Ayres et al., Dartmouth College.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2024 based on thermal sums. As of 14 April, 2024, 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: 12 May and 30 May.



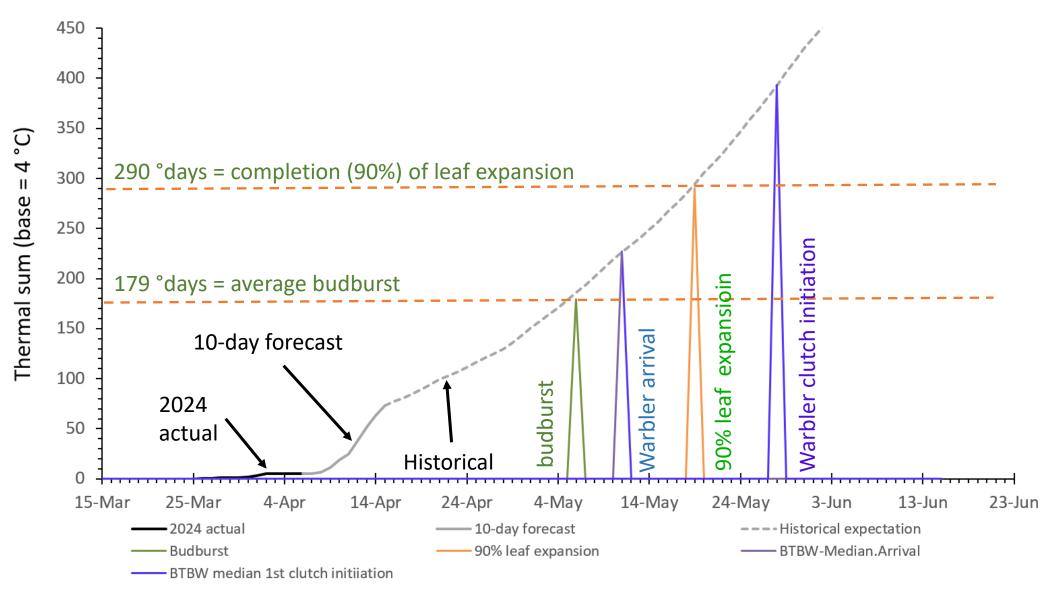
Real-time temperature records from USDA Forest Service station at Watershed 1. Phenological models adapted from Lany et al. 2016 using long term data of USDA Forest Service.



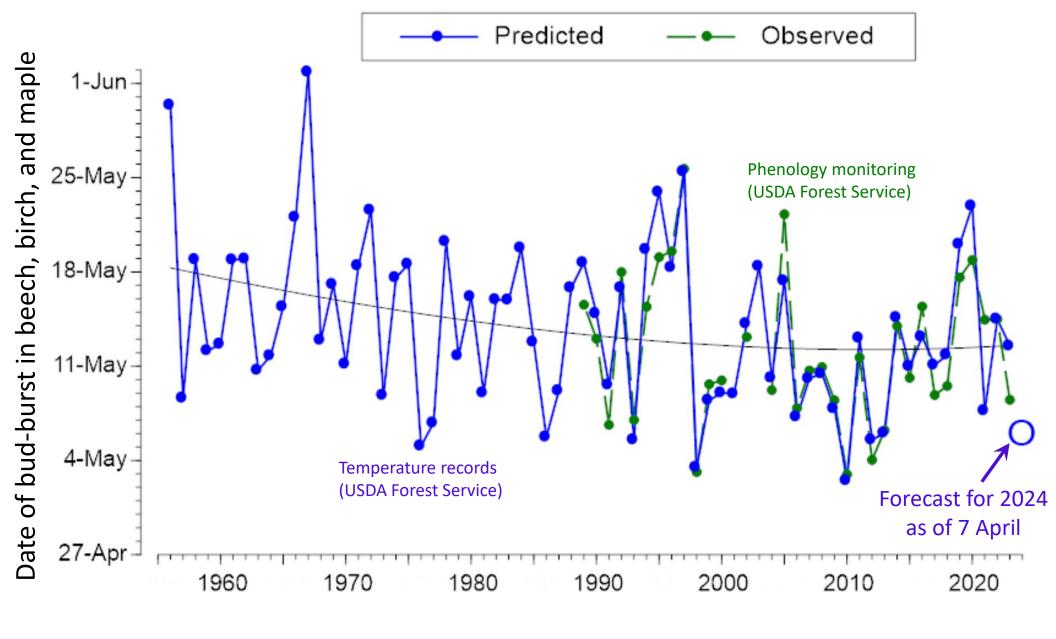
As of 14 April 2024, the forecast date of leafout is 9 May for mid-elevation bird plots at Hubbard Brook.

Phenology measurements by Northern Research Station, USDA Forest Service. Leaf phenology model adapted from Nina Lany et al. 2016, *Oikos*. Analyses by Matt Ayres et al., Dartmouth College. Estimated leaf-out phenology for mid-elevation Bird Plot in 2024 based on thermal sums. As of 7 April, 2024, predicted dates for budburst and 90% completion of leaf expansion are: 6 May and 19 May.

Predicted median dates of arrival and 1st clutch initiation by Black-throated Blue Warblers are: 11 May and 28 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.

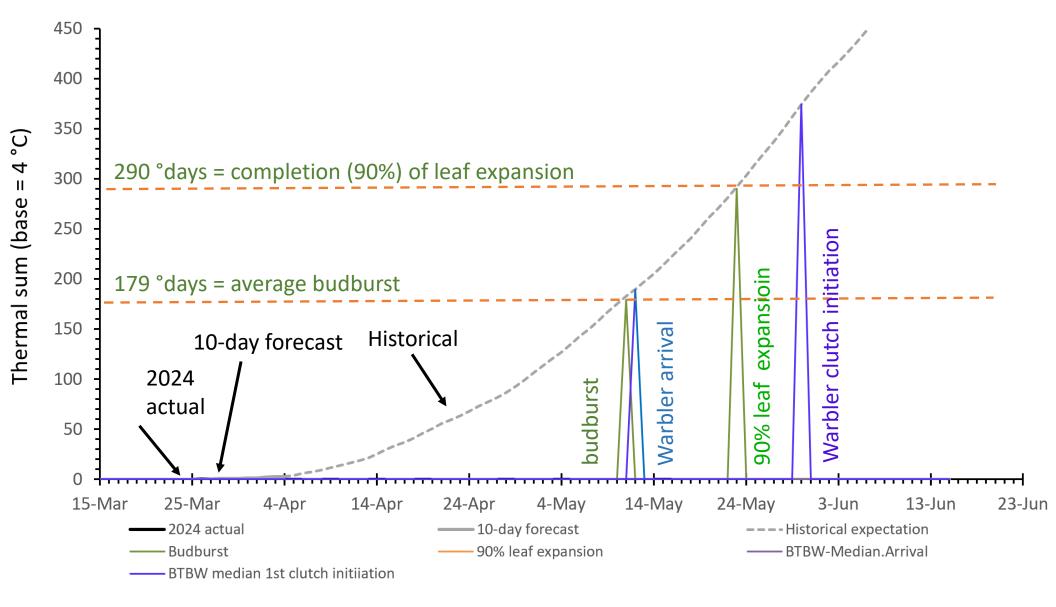


As of 7 April 2024, the forecast date of leafout is 6 May for mid-elevation bird plots at Hubbard Brook.

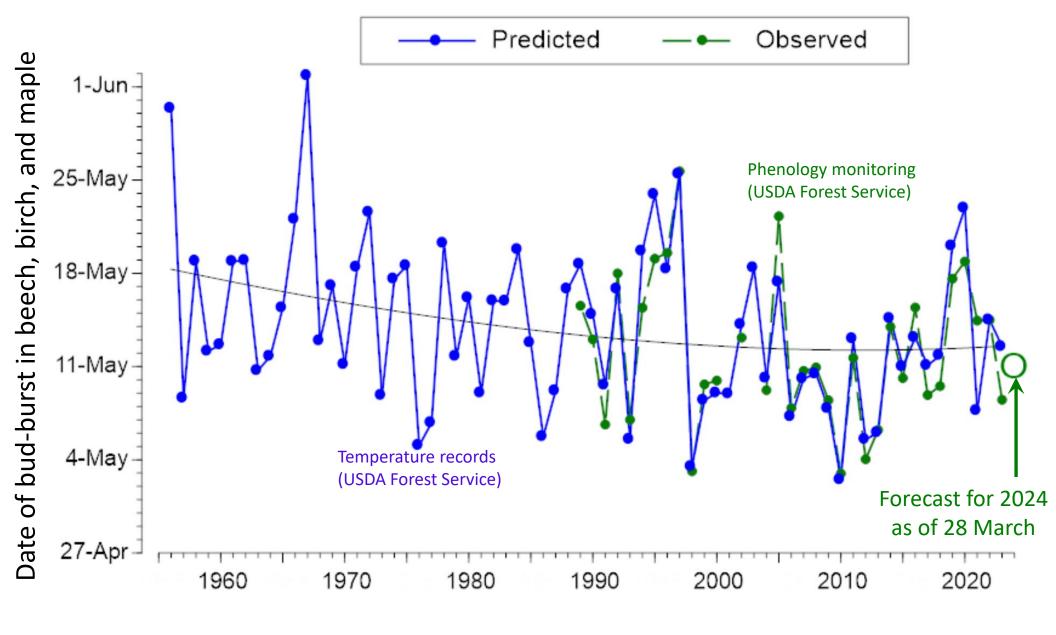
Phenology measurements by Northern Research Station, USDA Forest Service. Leaf phenology model adapted from Nina Lany et al. 2016, *Oikos*. Analyses by Matt Ayres et al., Dartmouth College.

Estimated leaf-out phenology for mid-elevation Bird Plot in 2024 based on thermal sums. As of 28 March, 2024, 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: 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 28 March 2024, the forecast date of leafout is 11 May for mid-elevation bird plots at Hubbard Brook.

Phenology measurements by Northern Research Station, USDA Forest Service. Leaf phenology model adapted from Nina Lany et al. 2016, *Oikos*. Analyses by Matt Ayres et al., Dartmouth College.

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