

## Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Time-series compilation of the segmented plant area

Images of *Arabidopsis thaliana* (COL) from camera 04 in the Swiss site during the 2018–2019 season (yr2). The cyan lines indicate the segmented areas. The corresponding RGB values are shown in the images. Anomalous data were removed as described in the Methods section, except for snow cover that was retained to facilitate the visual recognition of the effect of snow on the target plants.

File Name: Supplementary Movie 2

Description: Time-series compilation of the segmented plant area

Images of Japanese *Arabidopsis kamchatica* (MAG) from camera 04 in the Swiss site during the 2018–2019 season (yr2). The cyan lines indicate the segmented areas. The corresponding RGB values are shown in the images. Anomalous data were removed as described in the Methods section, except for snow cover that was retained to facilitate the visual recognition of the effect of snow on the target plants.

File Name: Supplementary Movie 3

Description: Time-series compilation of the segmented plant area

Images of synthetic *Arabidopsis kamchatica* (RS7) from camera 04 in the Swiss site during the 2018–2019 season (yr2). The cyan lines indicate the segmented areas. The corresponding RGB values are shown in the images. Anomalous data were removed as described in the Methods section, except for snow cover that was retained to facilitate the visual recognition of the effect of snow on the target plants.

File Name: Supplementary Data 1

Description: The scripts used for analyzing non-image data and producing figures in the manuscript.