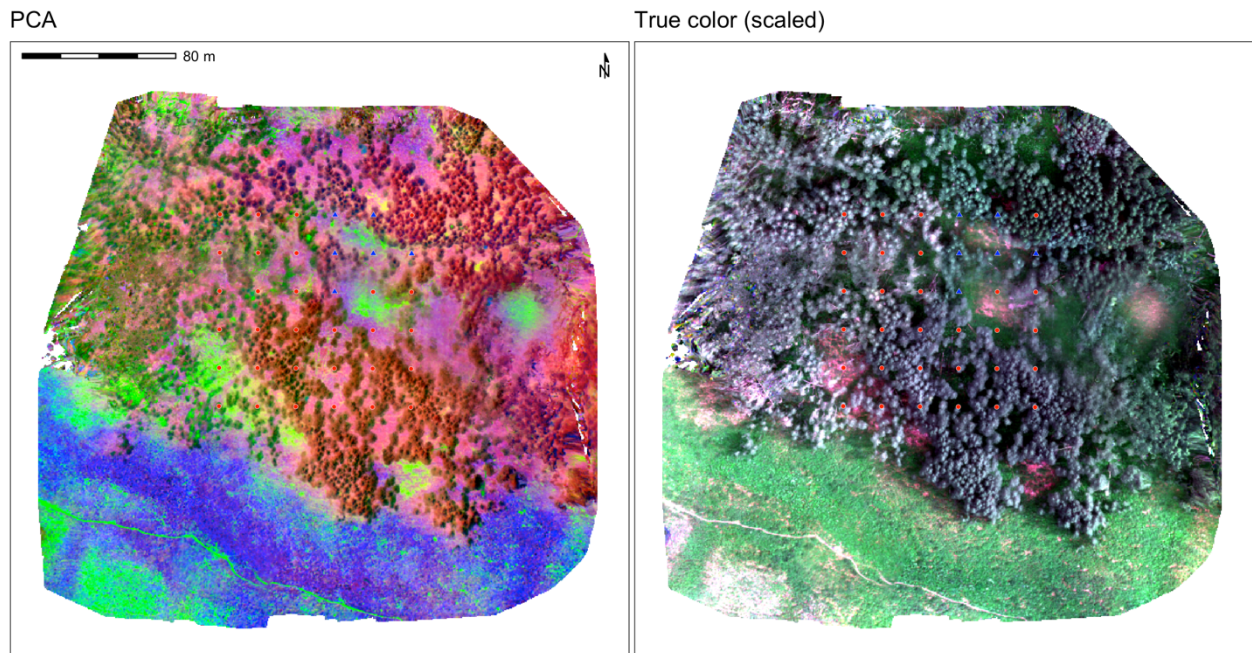


1 **Supporting Information**

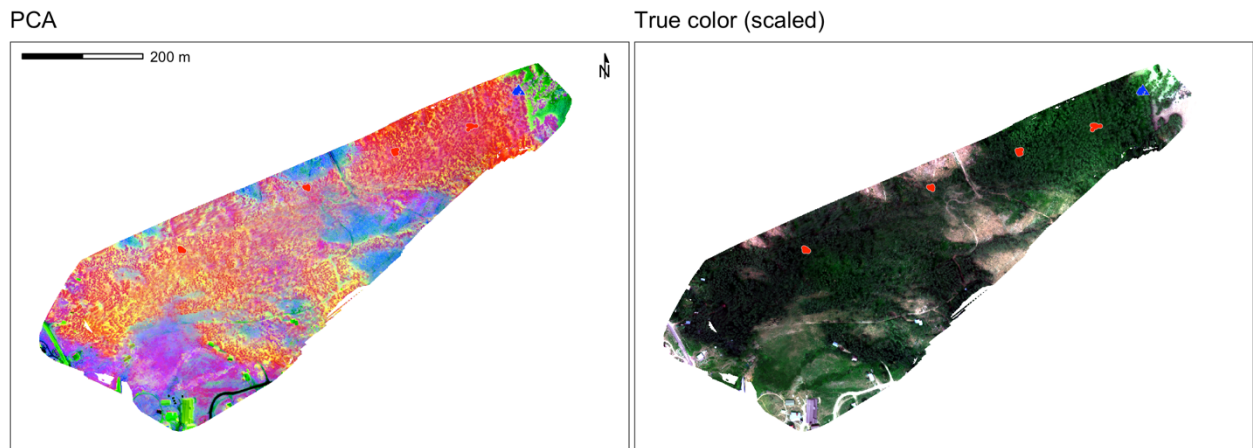
2

3 **Figure S1.** False color multispectral imagery for the *Ben-Iha* site. Triploid and diploid plots are
4 labeled as red and blue points respectively.



5

6 **Figure S2.** False color multispectral imagery for the *Jolanta-1* site. Triploid and diploid plots are
7 labeled as red and blue points respectively.

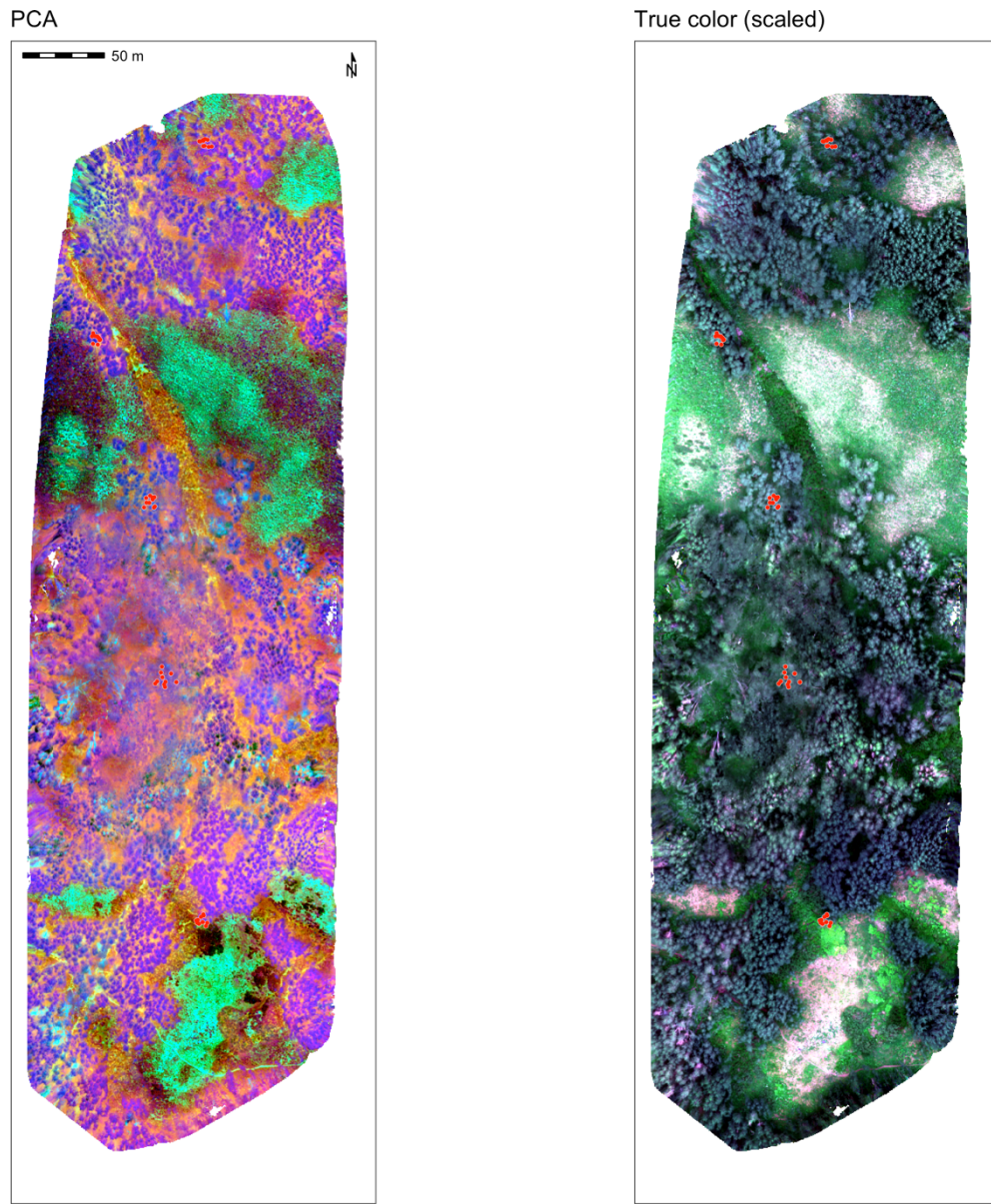


8

Ploidy • triploid ▲ diploid

9

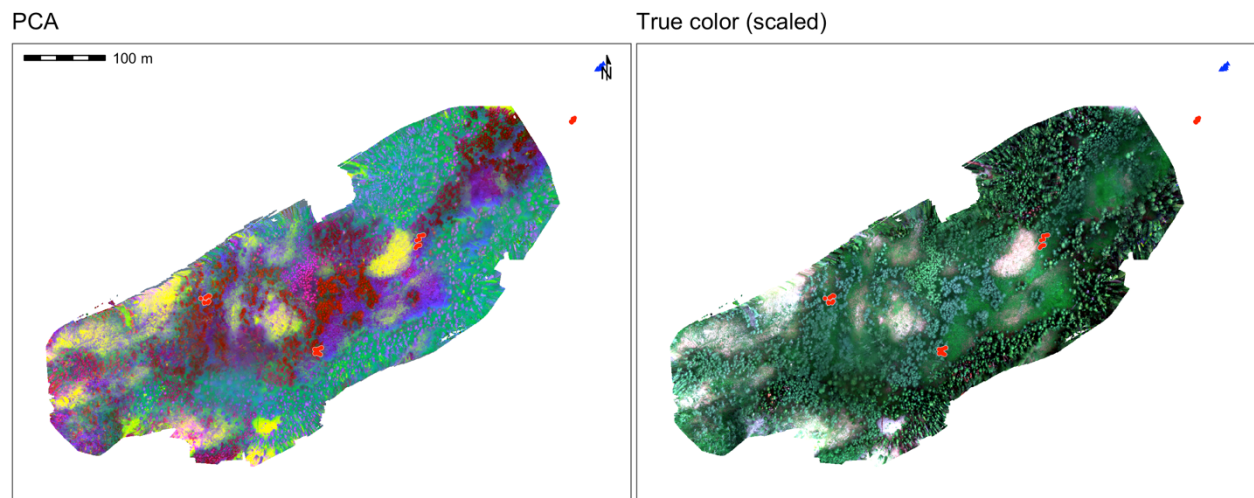
10 **Figure S3.** False color multispectral imagery for the *Jolanta-2* site. Triploid and diploid plots are
11 labeled as red and blue points respectively.



12

Ploidy • triploid

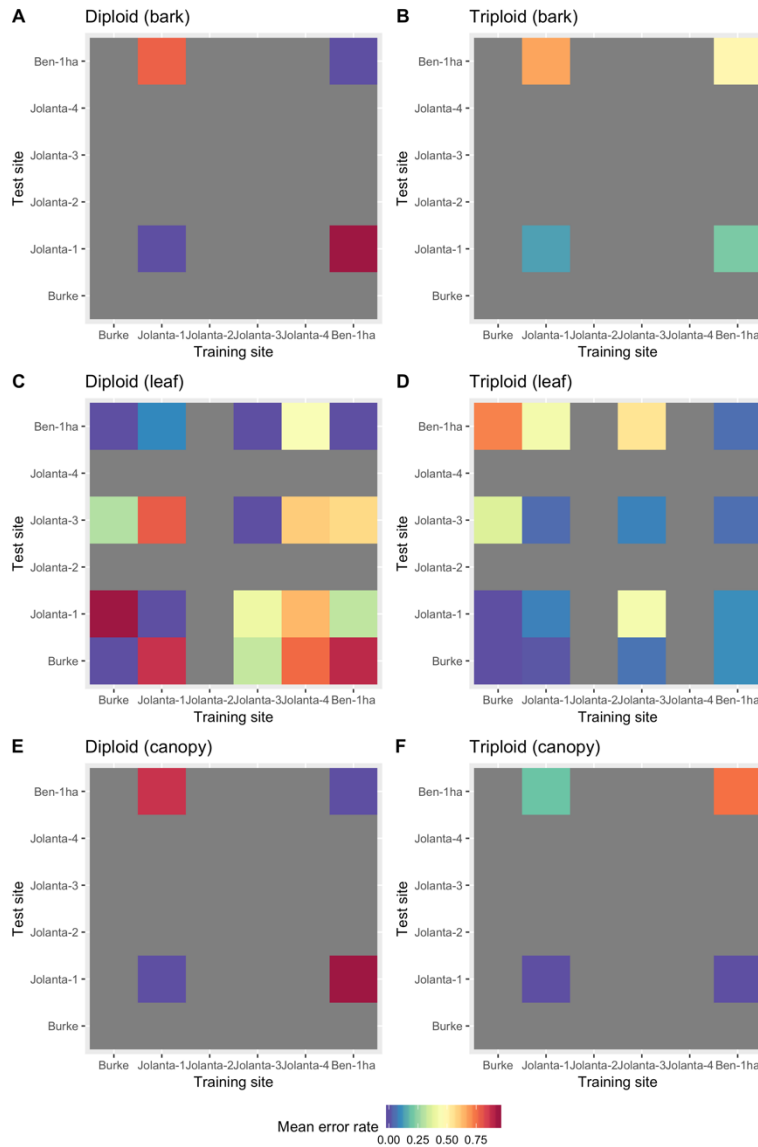
13 **Figure S4.** False color multispectral imagery for the *Jolanta-3* site. Triploid and diploid plots are
14 labeled as red and blue points respectively. The two clusters of genetic samples at the top right of
15 the image were not covered by the imagery.



16

Ploidy • triploid ▲ diploid

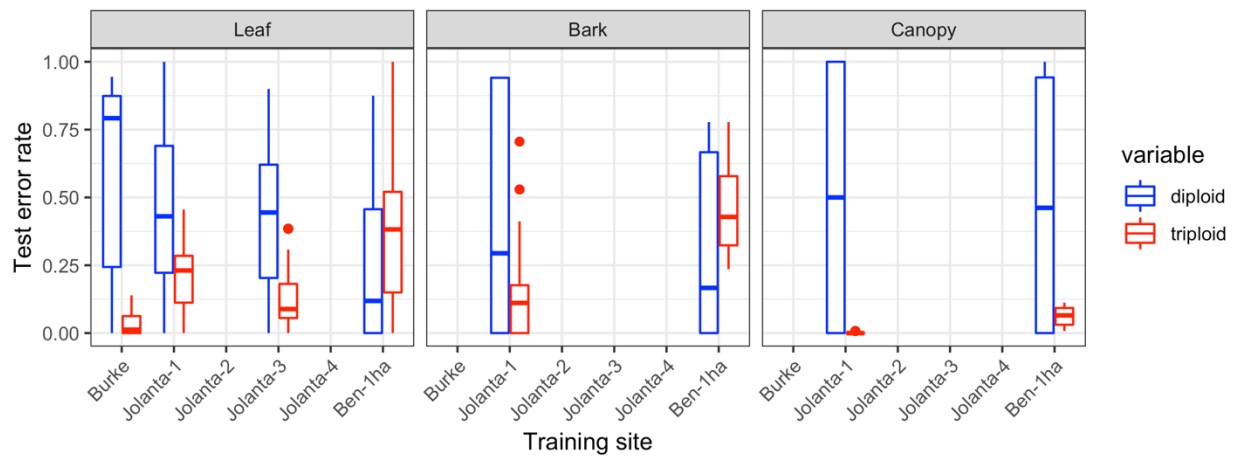
17 **Figure S5.** Classification error rate for predictions of ploidy level. In this analysis, models were
 18 trained on data from one site (columns) and tested on data from another site (rows). Error rates at
 19 each train-test combination reflect mean values across an ensemble of ten random forest
 20 classifiers. Gray cells indicate cases where data were not available for the cross-validation, e.g. if
 21 training data did not include points in both diploid and triploid classes.



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23

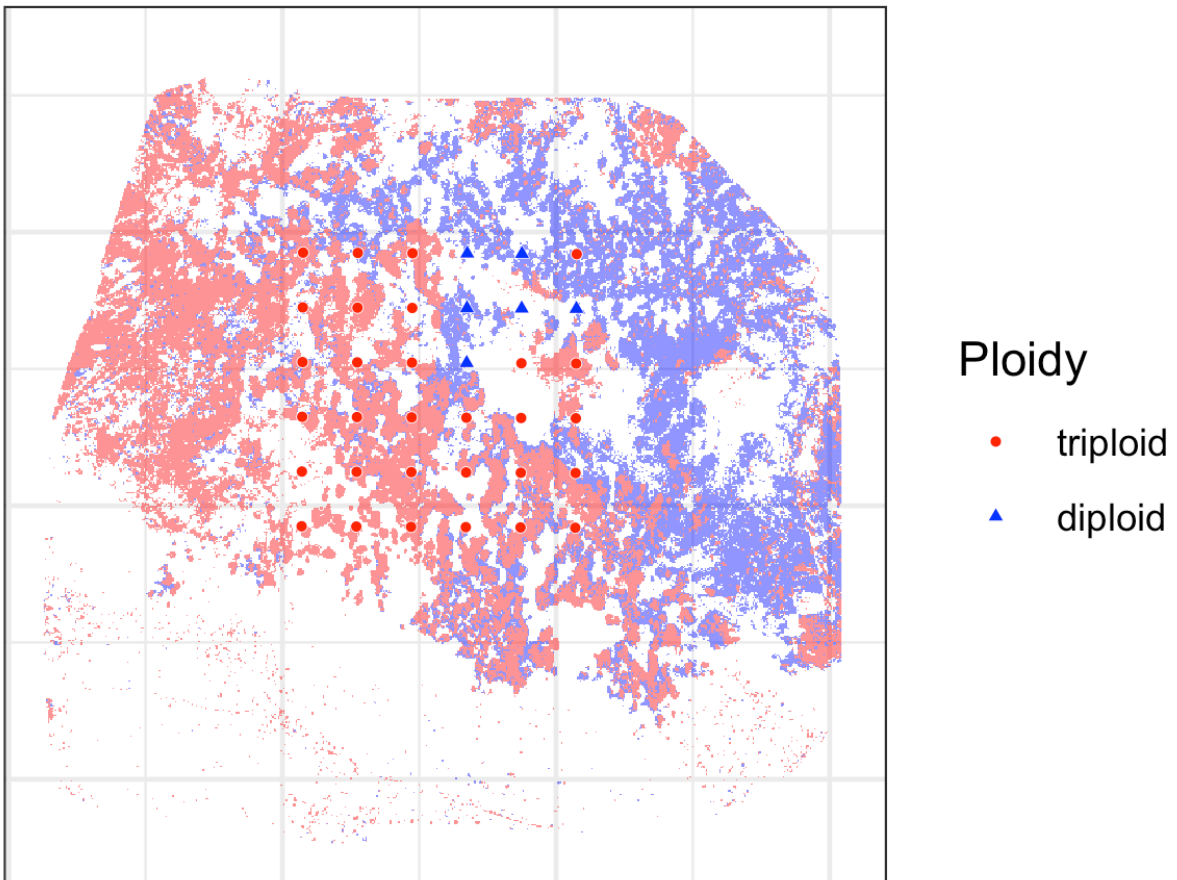
24 **Figure S6.** Distribution of error rates of random forest classifiers trained on a single site and
 25 tested at all other sites. Boxes indicate interquartile ranges and are shown in blue for diploids and
 26 red for triploids. Error rates at each train-test combination reflect mean values across an
 27 ensemble of ten random forest classifiers. Missing bars indicate cases where data were not
 28 available for the cross-validation, e.g. if training data did not include points in both diploid and
 29 triploid classes.



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31

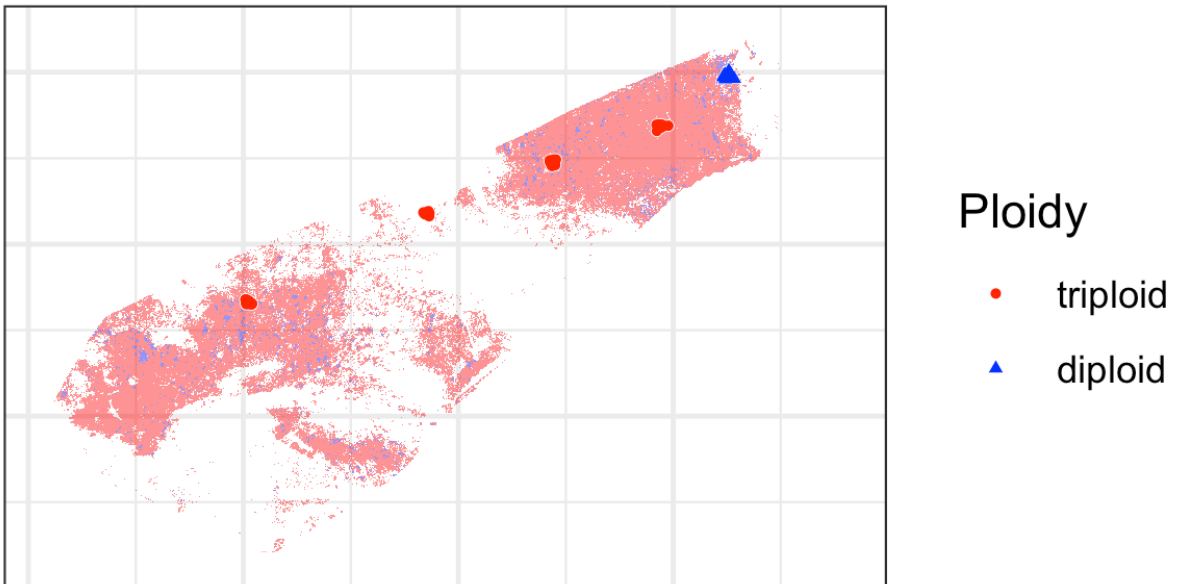
32 **Figure S7.** Spatial predictions of an ensemble of random forest classifiers at the *Ben-Iha* site,
33 with canopy pixels shaded light red (triploids) or light blue (diploids). Georeferenced genetic
34 samples are shown as red circles (triploids), or blue triangles (diploids).



35

36

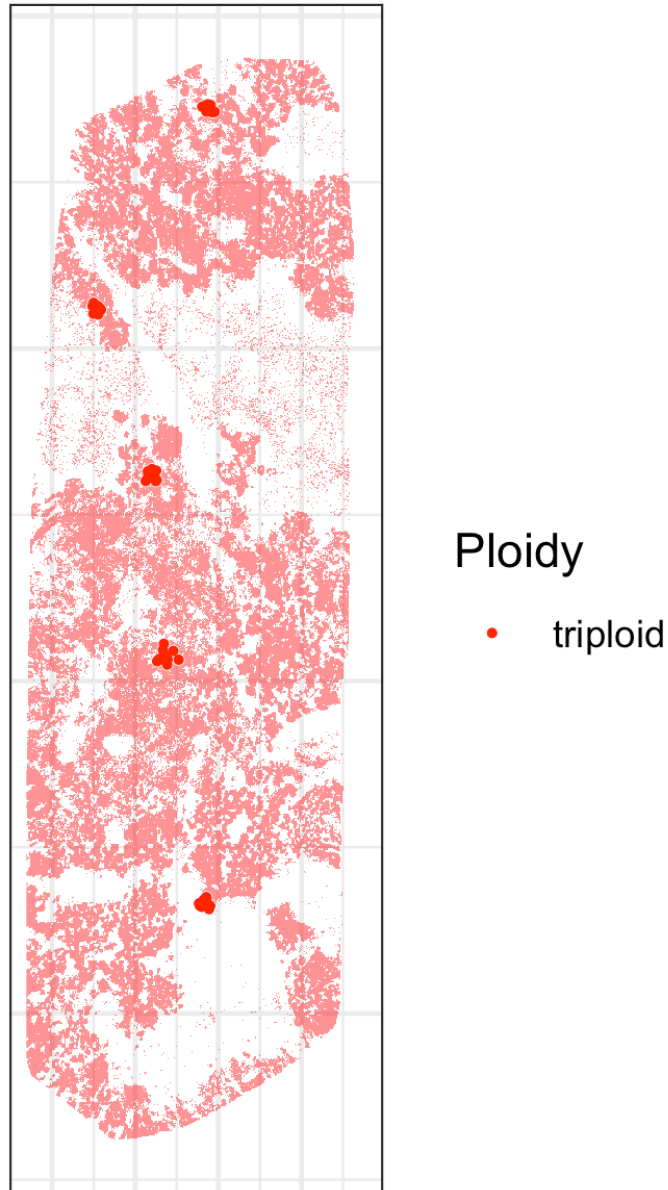
37 **Figure S8.** Spatial predictions of an ensemble of random forest classifiers at the *Jolanta-1* site,
38 with canopy pixels shaded light red (triploids) or light blue (diploids). Georeferenced genetic
39 samples are shown as red circles (triploids), or blue triangles (diploids).



40

41

42 **Figure S9.** Spatial predictions of an ensemble of random forest classifiers at the *Jolanta-2* site,
43 with canopy pixels shaded light red (triploids) or light blue (diploids). Georeferenced genetic
44 samples are shown as red circles (triploids), or blue triangles (diploids).



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47 **Figure S10.** Spatial predictions of an ensemble of random forest classifiers at the *Jolanta-3* site,
48 with canopy pixels shaded light red (triploids) or light blue (diploids). Georeferenced genetic
49 samples are shown as red circles (triploids), or blue triangles (diploids). The two clusters of
50 genetic samples at the top right of the image were not covered by the imagery.

