

# Sampling Kit

This parcel contains:

- ✓ **Instruction manual** (brochure incl. forms and fact sheets)
- ✓ **Auxiliary material for sampling** (e.g., mouth protection, gloves, pen)
- ✓ **Paper bags** for sampling 40 birch catkins in phenological stage 51/52 (one bag per cardinal direction and per tree) with **one small Silica gel** per paper bag as well as a robust shipping box\*
- ✓ **Paper bags** for sampling 100-200 birch catkins in phenological stage 60/61 (one bag per tree). Bags are placed in **Zip-Lock-bags embedded with Silica gel** and returned in **air cushion envelopes** (format B4, white)\*
- ✓ **DIN A3 sheet** to lay and dry catkins
- ✓ **Adhesive film** for sealing the paper bags
- ✓ **Zip-Lock-bags** for birch twigs, one **paper towel** and one **envelope\*** (format B4, white) for shipping the leaf samples to HU Berlin in early summer
- ✓ **Folding map** for shipping dried leaves (20 per tree) to KU Eichstätt-Ingolstadt as well as an **envelope** (format A5, white)\*\*
- ✓ **Black paper** for checking pollen release
- ✓ **A small thank-you ...**



\* Please send the shipping box and all envelopes via express delivery. All costs will be reimbursed.

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This envelope can be sent via regular post.

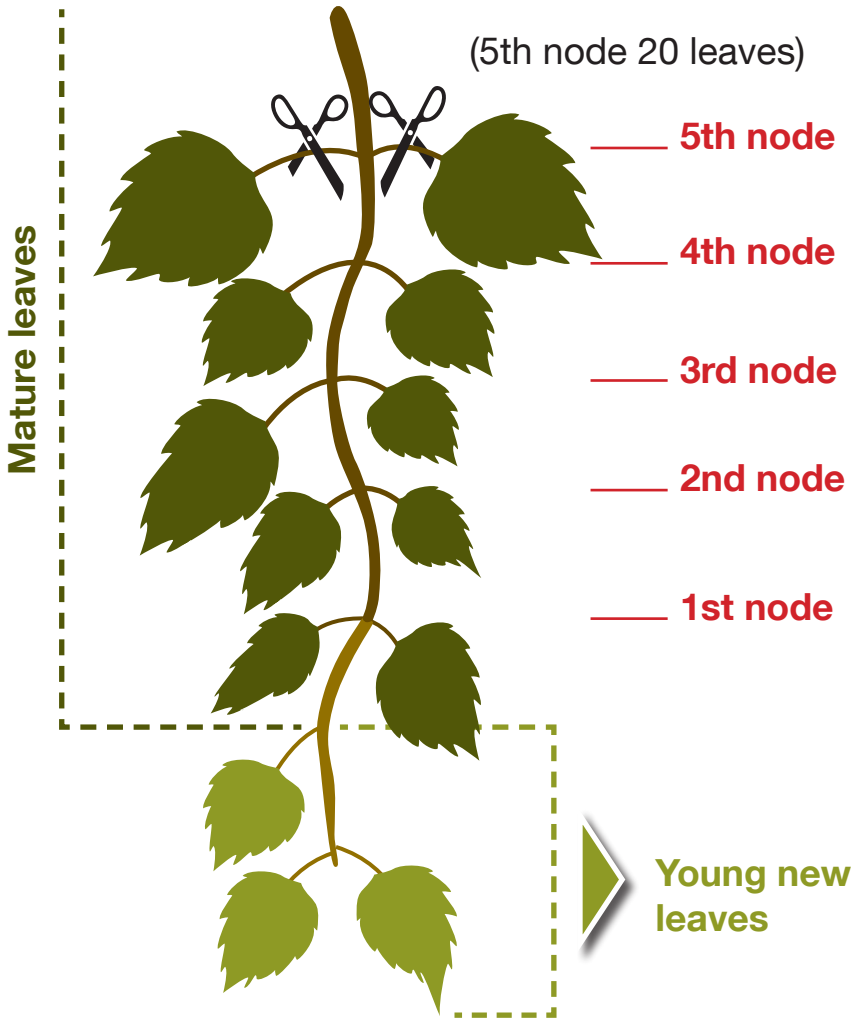
## Remarks on the collection of catkins at stage 60/61 (beginning of flowering)

For the best results, we kindly ask you to dry the catkins after sampling (in the manner of 2019). Afterwards, the catkins should be put in a) the paper bag and b) the plastic bag (containing Silica gel) and sent via express.

1. Collect *a minimum of 100* (at best 150–200) catkins using gloves and mouth protection into the paper bag. Label the paper bag with sampling date, tree number and IPG number.
2. After the sampling, the catkins should be *dried on a DIN A3 paper for two days* (three days for wet catkins) at room temperature (in the manner of 2019). Please label the DIN A 3 paper dedicated for drying if you have more than one IPG birch.
3. Afterwards, the catkins should be placed in the paper bag again.
4. Make sure the catkins are almost *equally distributed* in the paper bag *in one layer*.
5. Close the small paper bag and use the *sticky tape* to seal any openings.
6. Open the *Ziploc plastic bag* containing the drying material. (Important: Please do not open the Ziploc plastic bag before you add the catkins).
7. Place the flat paper bag with catkins carefully in *the plastic bag* containing Silica gel, so that the drying material is in close contact to the paper bag with catkins. It looks now like a sandwich.
8. The Ziploc plastic bag needs to be closed properly and the *air* inside needs to be *removed* by hand as good as possible.
9. Put the Ziploc plastic bag in the enclosed envelope and *send* it via *express* for which we will cover the costs.



## Leaf morphology analyses

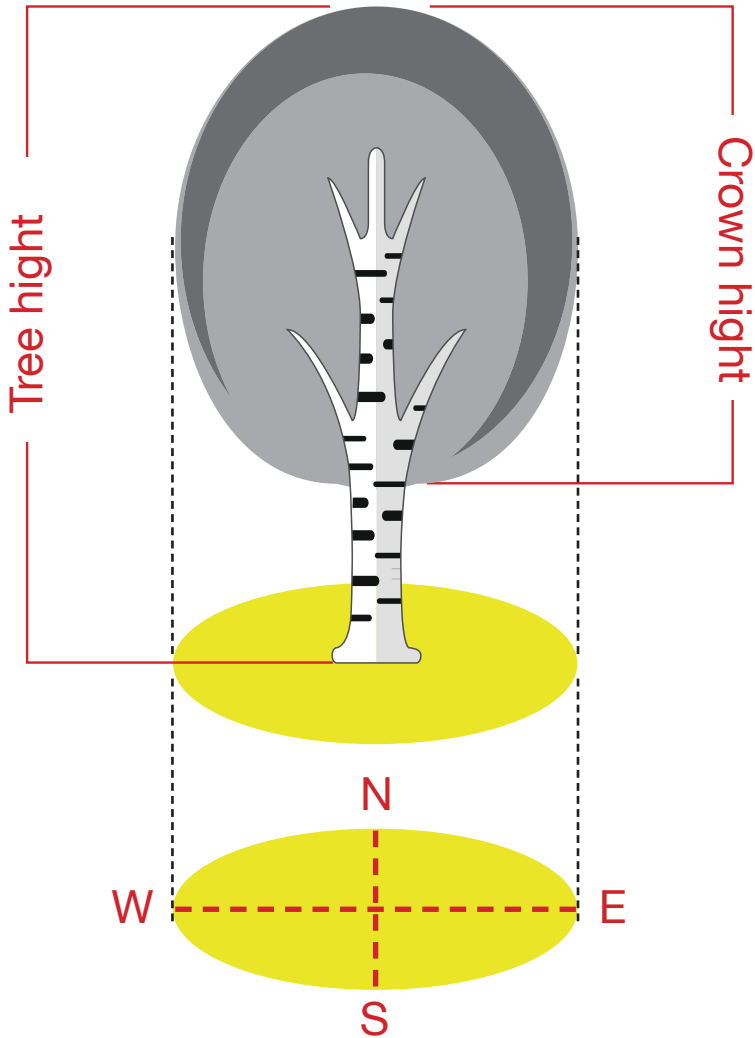


This year, please also send leaves for leaf morphology analyses. Therefore, select birch twigs from different branches of the southern and eastern side of the crown, preferably in July. Collect 20 mature and healthy leaves from the 5th node of the twigs. Dry the leaf samples for one week at room temperature and put them in the dedicated bag. Label the bag accordingly and send it using the enclosed envelope. Since the material is already dry, please send the envelope via regular post.

## Tree parameters

This picture shows you some relevant tree parameters. Please especially check for the definition of crown height.

Thank you!



Crown diameter N-S und W-E