

EDGG Field Workshop: Equipment list

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PER SCIENTIST

- Pencil, ball pen and water proof pen (for filling forms, paper and plastic bags under any weather condition)
- Hand lens
- If possible: Notebook computer

IN THE FIELD: Per team of 4 scientists (i.e. for 1 biodiversity plot or 2 normal plots) [blue numbers are for Field Workshops with 16–19 participants]

- 2x writing pad (8)
- 2x umbrella (to allow writing under rainy conditions) (8)
- 1x measuring tape \geq 40 m (4)
- 2x measuring tapes \geq 15 m (8)
- 2x folding rules of 2 m (i.e. 8-10)
- 2x GPS (with averaging function) (8)
- 2x compass with inclinometer (alternative or even better: smart phone with compass and inclinometer app) (8)
- 12x metal pins (10 actually needed, 2 reserve for losses; round profile better than v-profile) (48)
- 2x hand shovel (8)
- 1x device to measure the soil depth (“penetrometer”; = iron pole of 0.85 m length with handle) (4)
- 1x standardised plastic disc (we are still experimenting with material/density and diameter) with central hole for measurement of vegetation height (4)
- 1x knife (e.g. Opinel) or scissor (max. blade length 15 cm) for biomass harvest (8)
- 1x metal frame 20 cm x 20 cm for biomass harvest (alternatively, the folding rule can be arranged to a 20 cm x 20 cm square) (4)

FOR SAMPLES AND RECORDS: per team of 4 scientists and day [blue numbers are for Field Workshops of 8 days with 16 participants, assuming 2 biodiversity plots and 8 normal plots per team and day]

- Biodiversity plot-form (2-sided, already hole-punched and pre-numbered), in sufficient number (128)
- Forms “10-m² relevés” in sufficient number (256)
- Instructions for sampling and using the forms (16)
- Small paper bags for cryptogams (bryophytes lichens separate), in sufficient number (i.e. 2 per normal plot, 20 per biodiversity plot, with some buffer) (2000)
- Medium-size paper bags for vascular plants, in sufficient number (i.e. 1 per normal plot, 10 per biodiversity plot, with some buffer) (1000)
- Big stable paper bags for biomass (1 per 10-m² plot, with some reserve for biomass-rich stands) (450)
- Stable (!) plastic bags, in sufficient number, for soil samples (i.e. one per normal plot, two per biodiversity plot) (384)

- POSSIBLY: magnets for permanent marking the corners (2 per biodiversity plot, 1 per normal plot) (384)

FOR ALL IN THE EVENINGS

- Projector for presentations
- Power extension lines & plug duplicators; potentially plug adapters
- Stereo microscopes with illumination
- Preparation equipment (like forcipis)
- Microscope (if bryologists or lichenologists are participating)
- Plant press

LITERATURE

- Possibly a short excursion guide for each of the participants with maps and names of all places to be visited
- Map of the study region
- Recent checklist from study region (book or print-out, not only electronically)
- 1x Flora Europaea printed, 1x Flora Europaea electronical
- Atherton, I., Bosanquet, S., Lawley, M. (2010) [Eds.]: Mosses and liverworts of Britain and Ireland – a field guide. – V + 848 pp., British Bryological Society, Plymouth.
- Frey, W., Frahm, J.-P., Fischer, E., Lobin, W. (2006): The liverworts, mosses and ferns of Europe. – XV + 512 pp., Harley, Colchester, Essex.
- Other bryophyte and lichen floras
- Several
 - Exkursionsflora für Deutschland (Vols. 3 + 4)
 - Flora Vegetativa
- Regional floras of the study region