**Sample handling survey form**

*In addition to filling out the PlasmAge metadata template, please answer the following supplementary questions to allow evaluation of (dis)similarities across various sample handling techniques. Note: Your responses will not be published verbatim. Instead, they will be transformed into a unified format that facilitates the anonymous comparison. Therefore, feel free to incorporate snippets from method sections of published works.*

1. Has sub-sampling of samples been performed? If yes, please specify the sub-sampling technique used (e.g., micro-splitter, cone and quartering, etc).
2. What type of mounting medium was used for the samples? For example, standard 25 mm round mount, thin section, etc? Please provide details.
3. How were grains transferred from the sample vials onto the mounting medium? Please describe the mounting technique used (e.g., bulk-mounting, syringe under alcohol, hand-picking, pouring, or other).
4. Provide details on the grinding and polishing process used for the samples.
5. Did you perform any further grain characterization techniques, such as automated mineralogy, CL/BSE imaging, or reflective and transmitted light imaging? If yes, please specify the techniques utilized.
6. What was the grain selection procedure used during analysis?
7. Which visual guidance (Phase coded map, CL, BSE, reflected, or transmitted images [or all]) was used for spot placement?
8. When placing spots on selected grains for analysis, was the focus on the core, the rim, or both (the oldest component/ the youngest component)?