Georeferencing Tools Available for GLOBAL

- **Duplicate matching**
  - Specimen-by-specimen
    - Using the duplicate searching tool in the occurrence editor.
    - Instructions for using this tool can be found on pages 60-61 of this manual: https://www.capturingcaliforniasflowers.org/uploads/1/6/3/7/16372936/cap_digitization_manual_aug2020.pdf
  - **Batch import from duplicates**
    - This is a code developed by the California Phenology Network that has been used to extract georeferences from specimens that have been identified as duplicates. The code and protocol for using this tool are described here: https://zenodo.org/record/4300889
    - Katie (your portal manager) can run this code for your collection and send the resulting georeferences to you for inspection and possible upload into the portal.
- **Coordinate cloning tool**
  - This tool finds georeferenced specimens that have similar locality information to other specimens in the database. You then have the option of importing the georeferenced coordinates from another specimen.
  - Instructions for using this tool can be found on pages 61-62 of this manual: https://www.capturingcaliforniasflowers.org/uploads/1/6/3/7/16372936/cap_digitization_manual_aug2020.pdf
- **Batch georeferencing**
  - Instructions for using this tool can be found here: https://www.capturingcaliforniasflowers.org/uploads/1/6/3/7/16372936/batch_georeferencing_protocol_v2.docx
- **Cross-collection batch georeferencing**
  - This tool works similar to the batch georeferencing tool, but you may include several collections in your search for specimens to georeference. See the protocol listed under **Batch georeferencing**.