Processing Images with Lightroom

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TTD - Tri-Trophic Thematic Collection Network
Collaborative Research: Plants, Herbivores, and Parasitoids: A Model System for the study of Tri-Trophic Associations (tcn.amnh.org)

- **Focus: one of the major herbivorous insect clades, the Hemiptera (aphids, scales, hoppers, cicadas, and true bugs), their host plants (20 families, incl. grasses, sedges, legumes, roses, comps.), and their parasitoids in a Tri-Trophic Databasing and imaging project—the TTD.**

- **TTD is coordinated by 7 collaborating institutions. Each oversees a portion of the network of another 27 large and small institutions, to capture and deliver specimen data for organisms in all three trophic levels.**

- **Goal: to capture and make available ~4 million specimen records and to unify a total of >7.8 million records.**
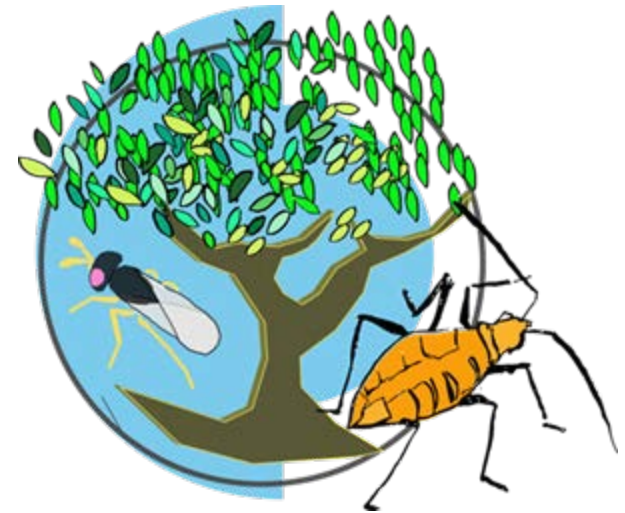
Botanical Workflow: Barcoding

At all participating herbaria,
    specimens are barcoded, and
    skeletal records are created, using "filed-as" names.
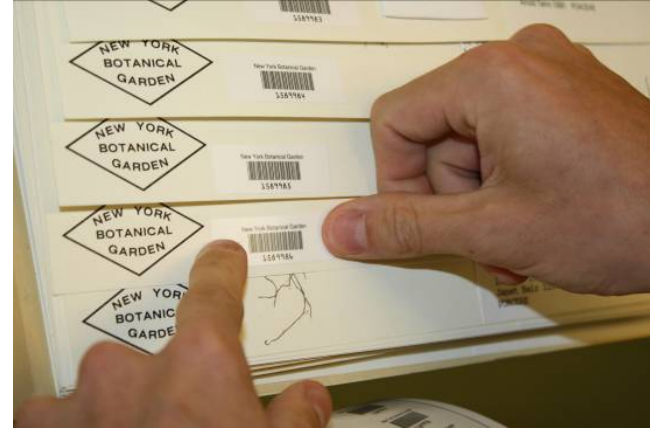
Botanical Workflow: Imaging

Jovana Sladojevic with light box and specimen carts at MICH

Image Workflow

- Check whitebalance on standard color chip at start of imaging session
- Place specimen in lightbox
- Take image using Canon EOS software to remotely control camera from keyboard
- Rename the file via scanning the barcode
- Stamp sheet as "imaged"
- Repeat and repeat and repeat…..

Prior to starting Lightroom – check for name irregularities, check rates, etc.
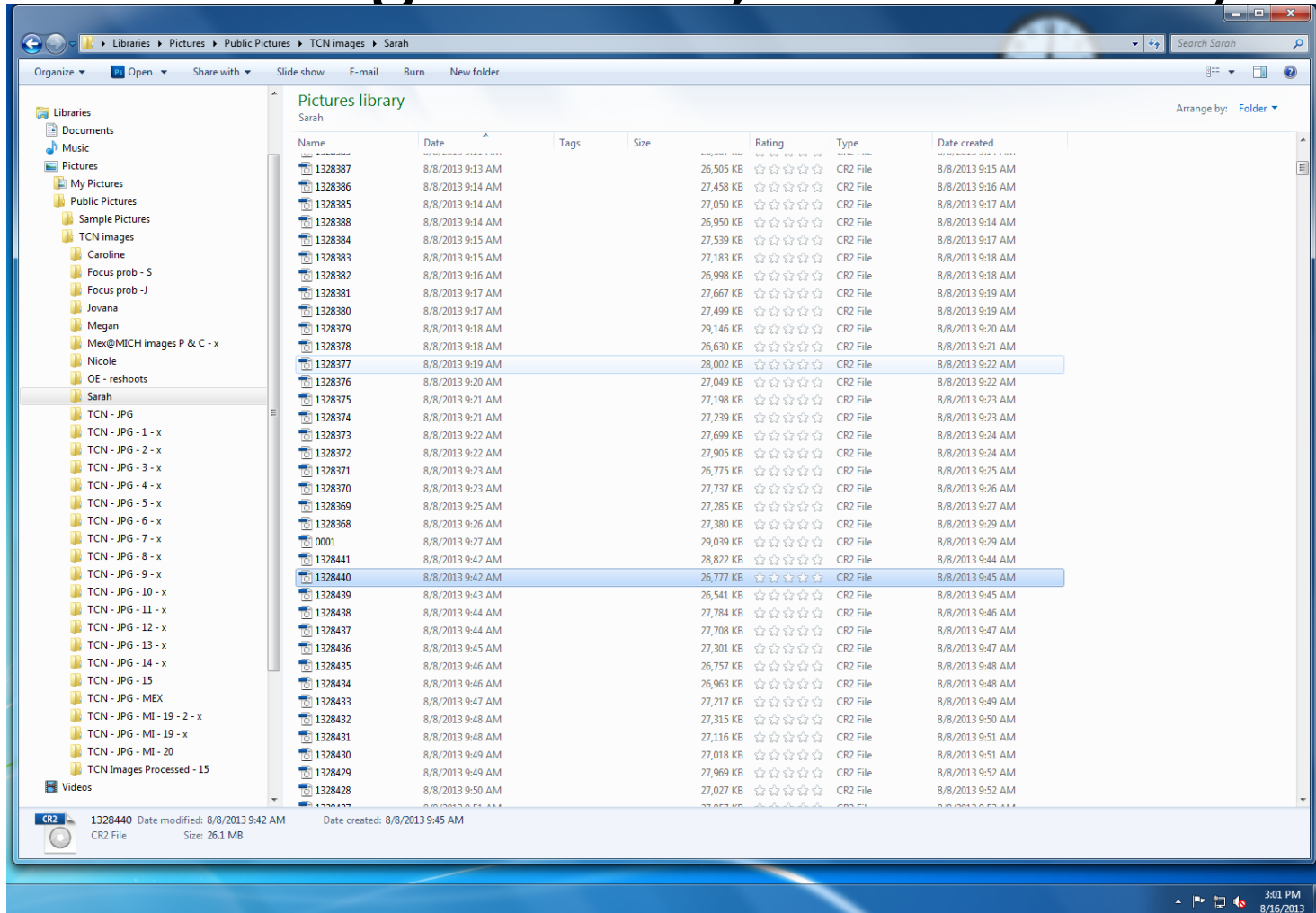
Lightroom 3.6 – opening screen
Start in the Library Module
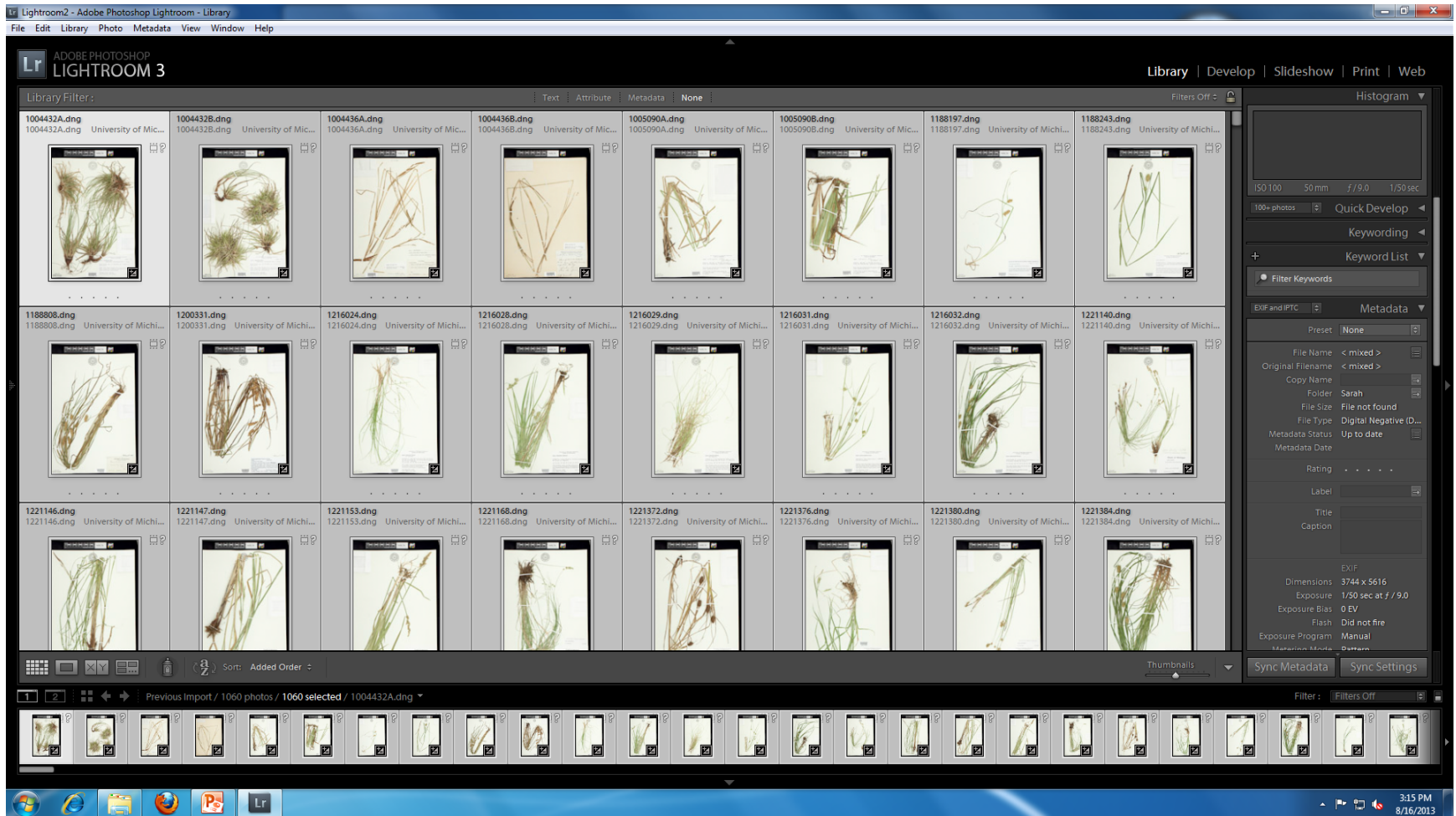
1 – Import photos to be processed
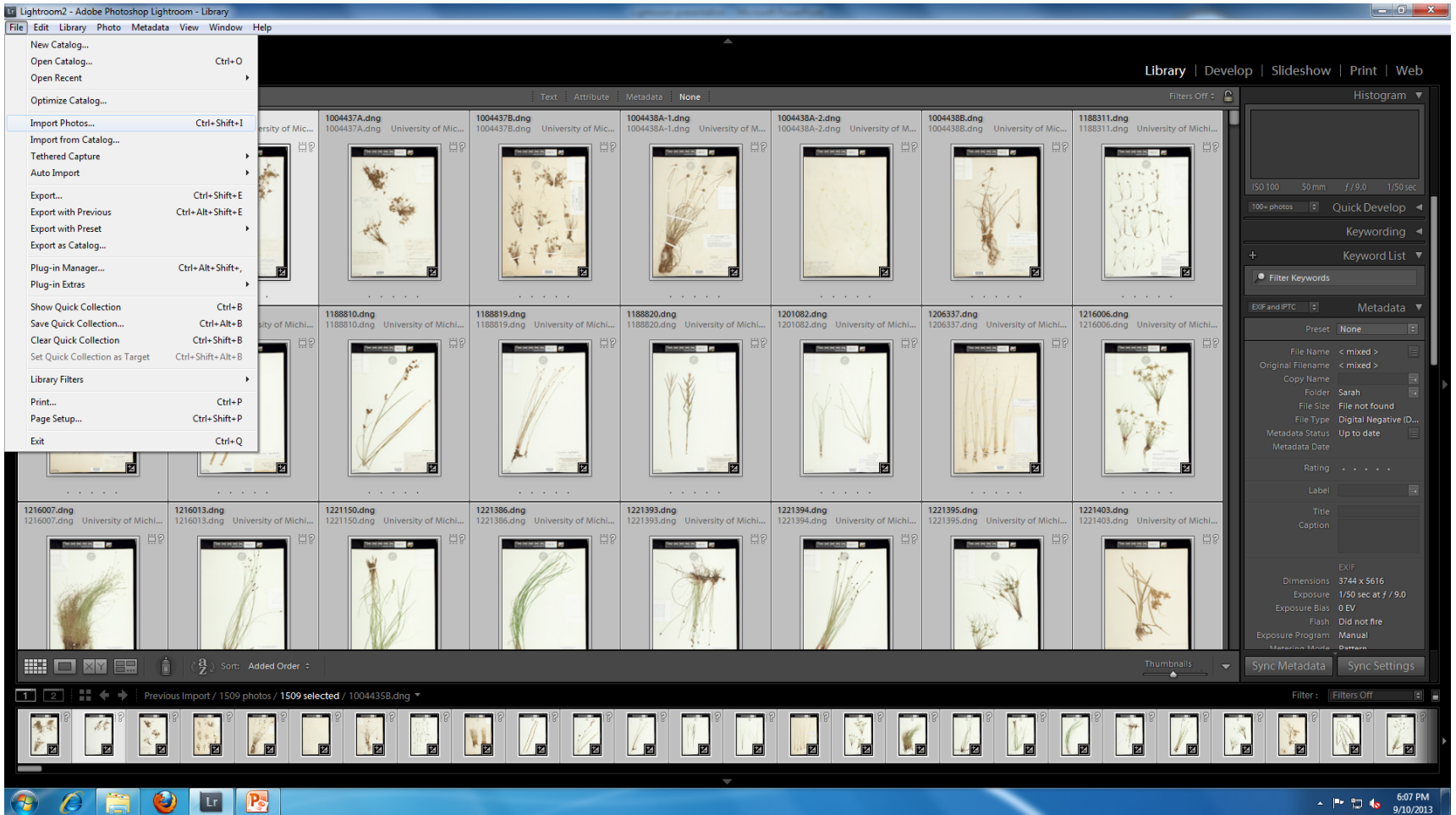
2 – Select source folder; "Check All", "Import"
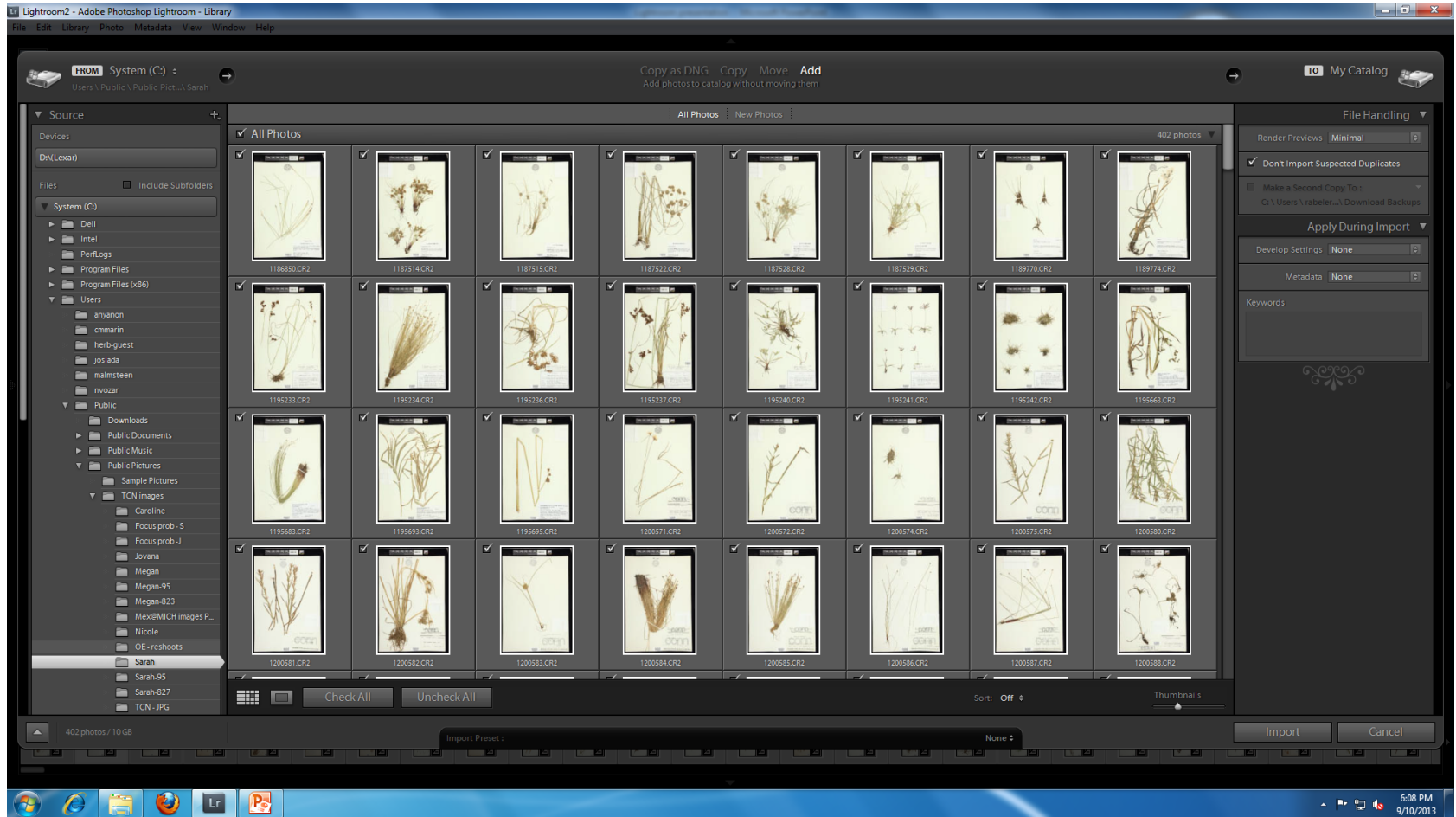
Watching progress of tasks
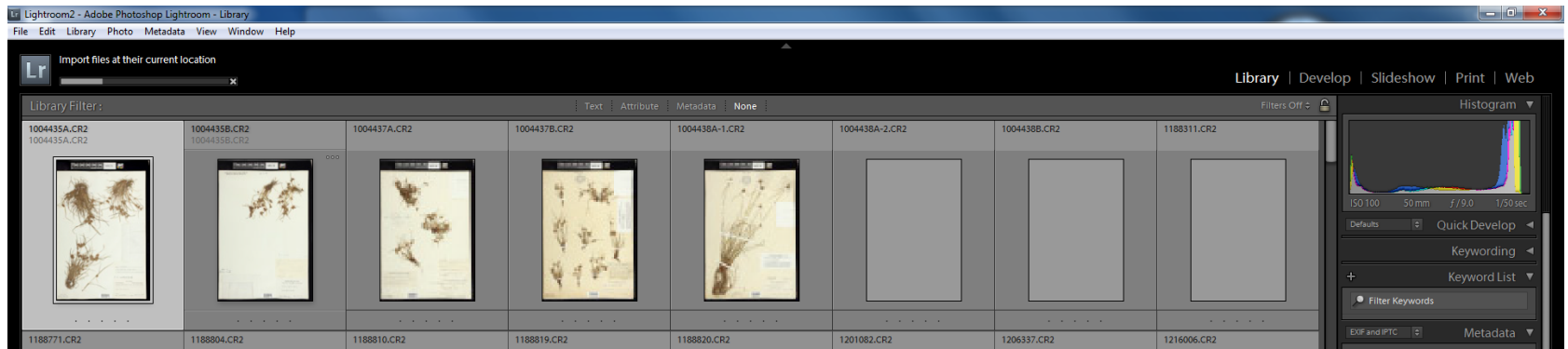
- Upper left corner of screen shows indications of progress, task completion.

- After images are imported, is easy to scan them quickly for gross problems (exposure, color, etc.)

3 – Select Data Preset to apply

- Under Metadata tab, create a Preset for each user
- Includes name of imager,
  - Copyright info (if desired), etc.
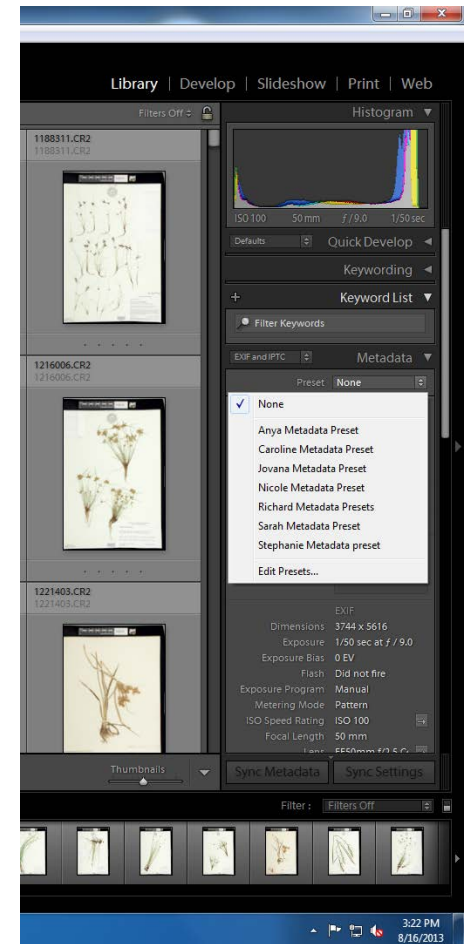
4 - Apply the Metadata Preset

5 – Enter Develop Module, "Select All" if not already done
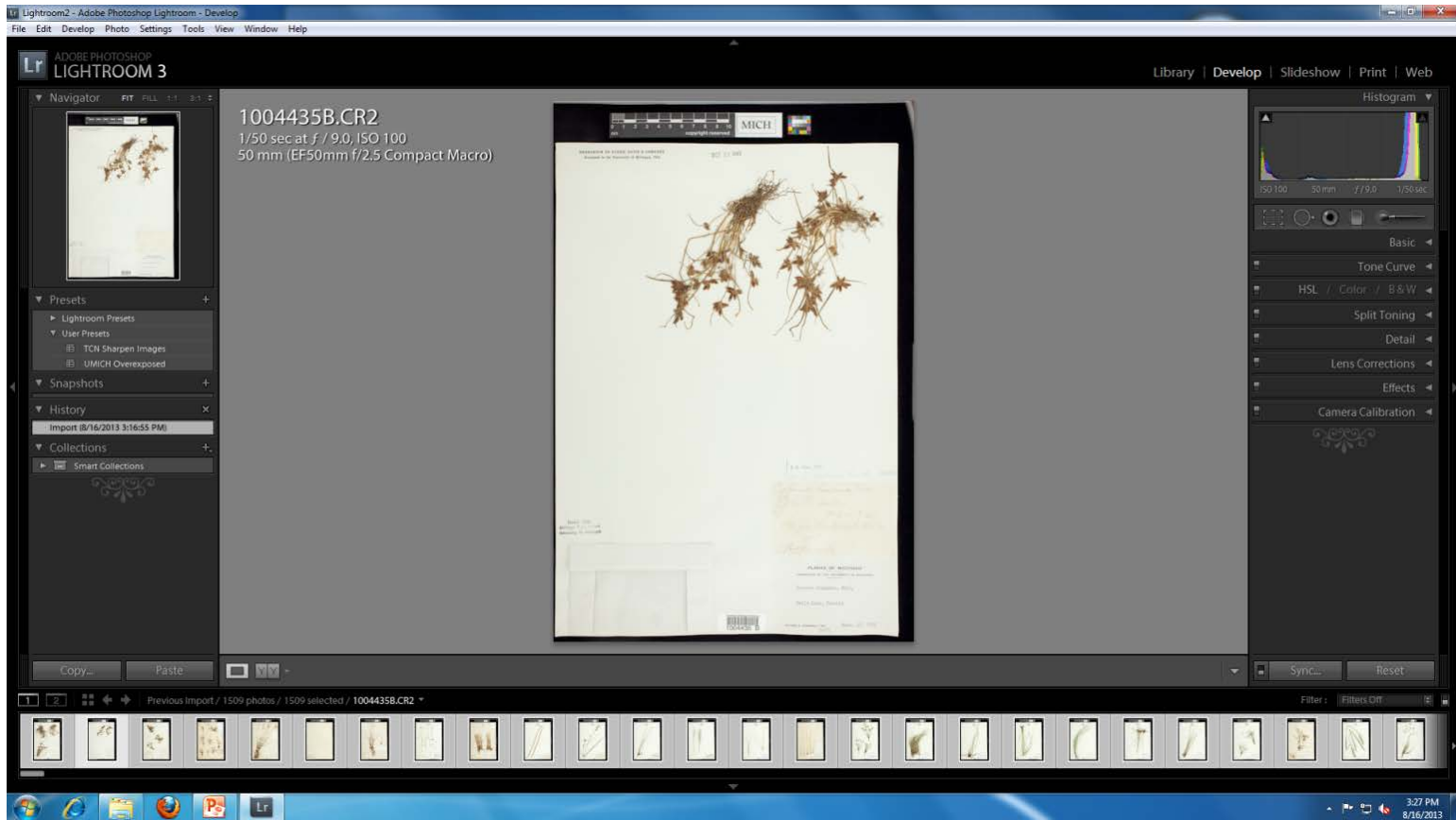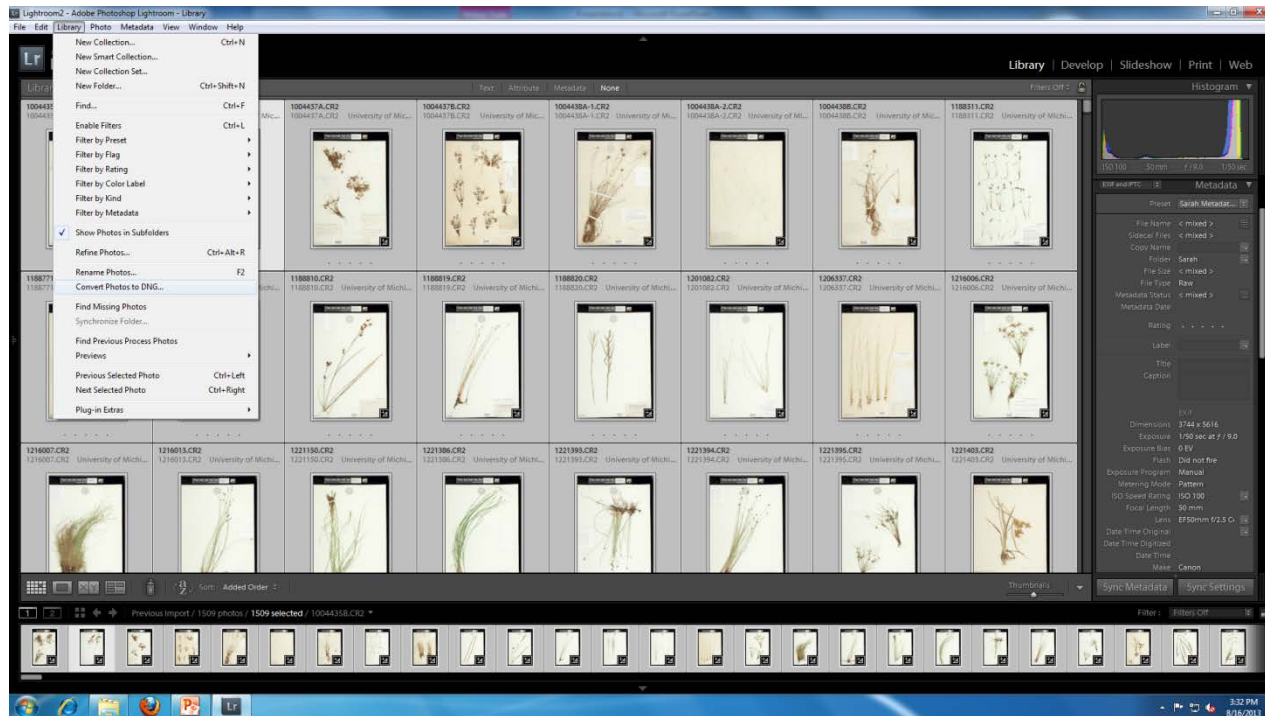
6 – Apply Sharpening preset; "Sync", "Synchronize"
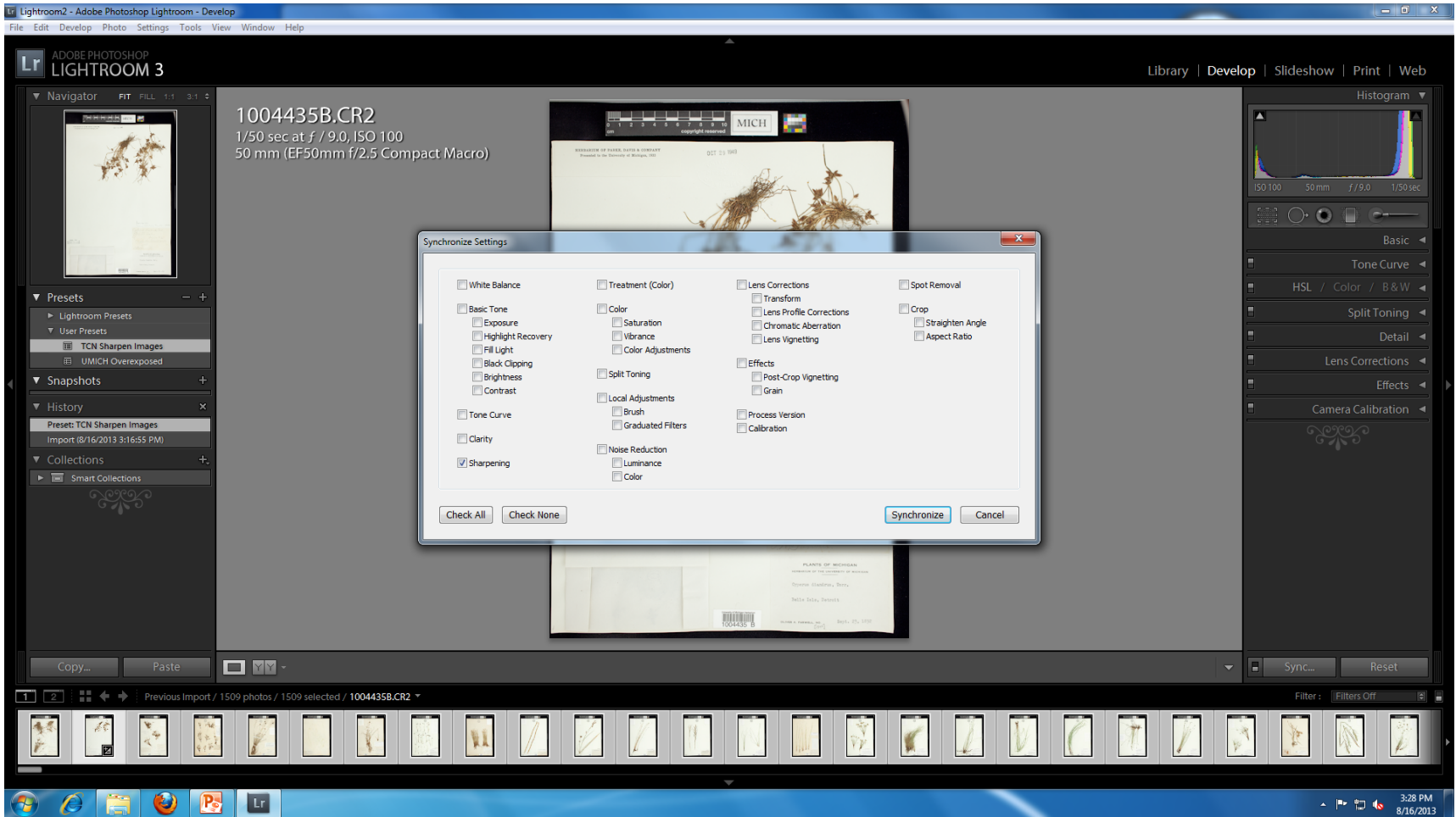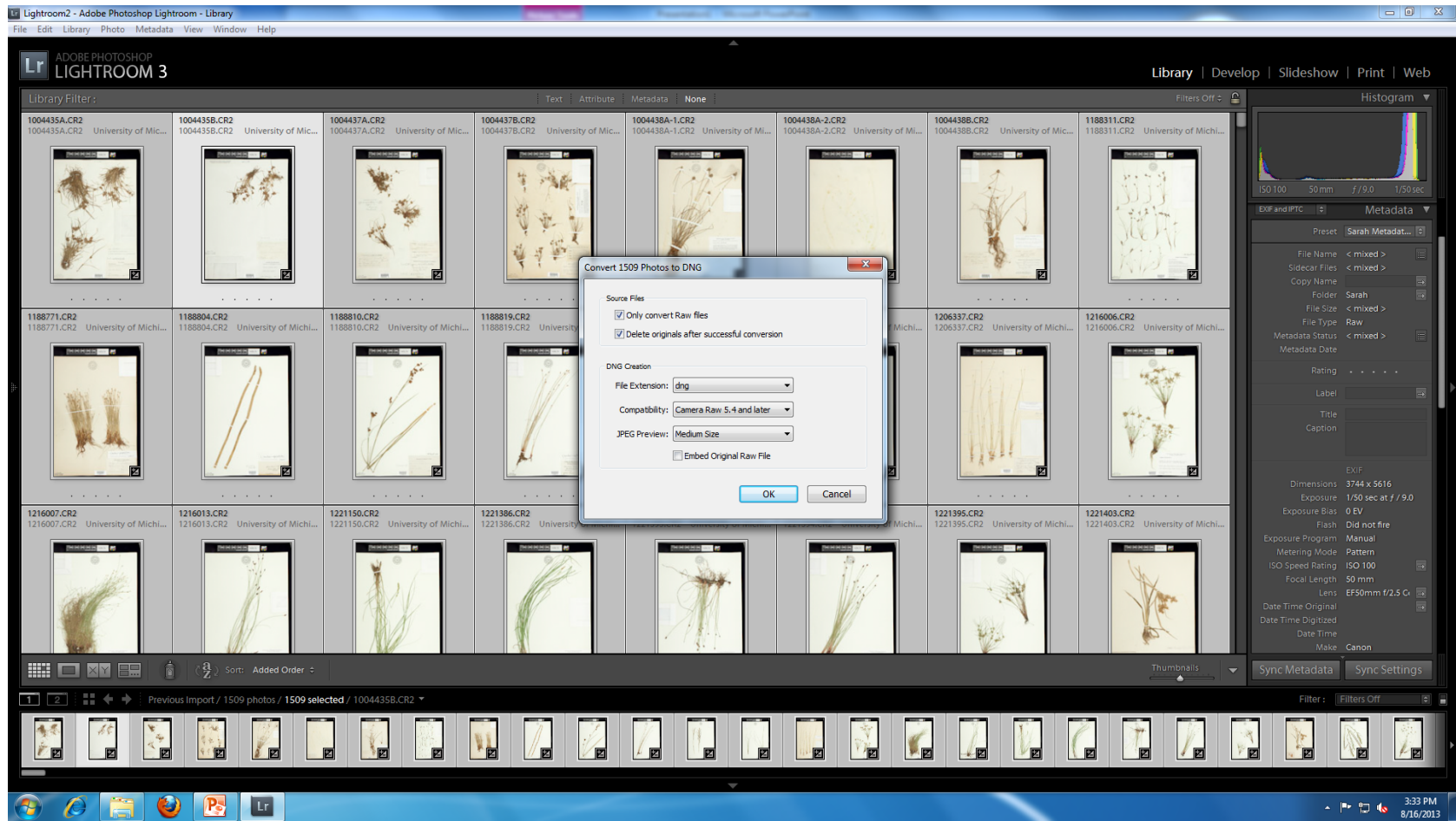
Progress of applying the preset
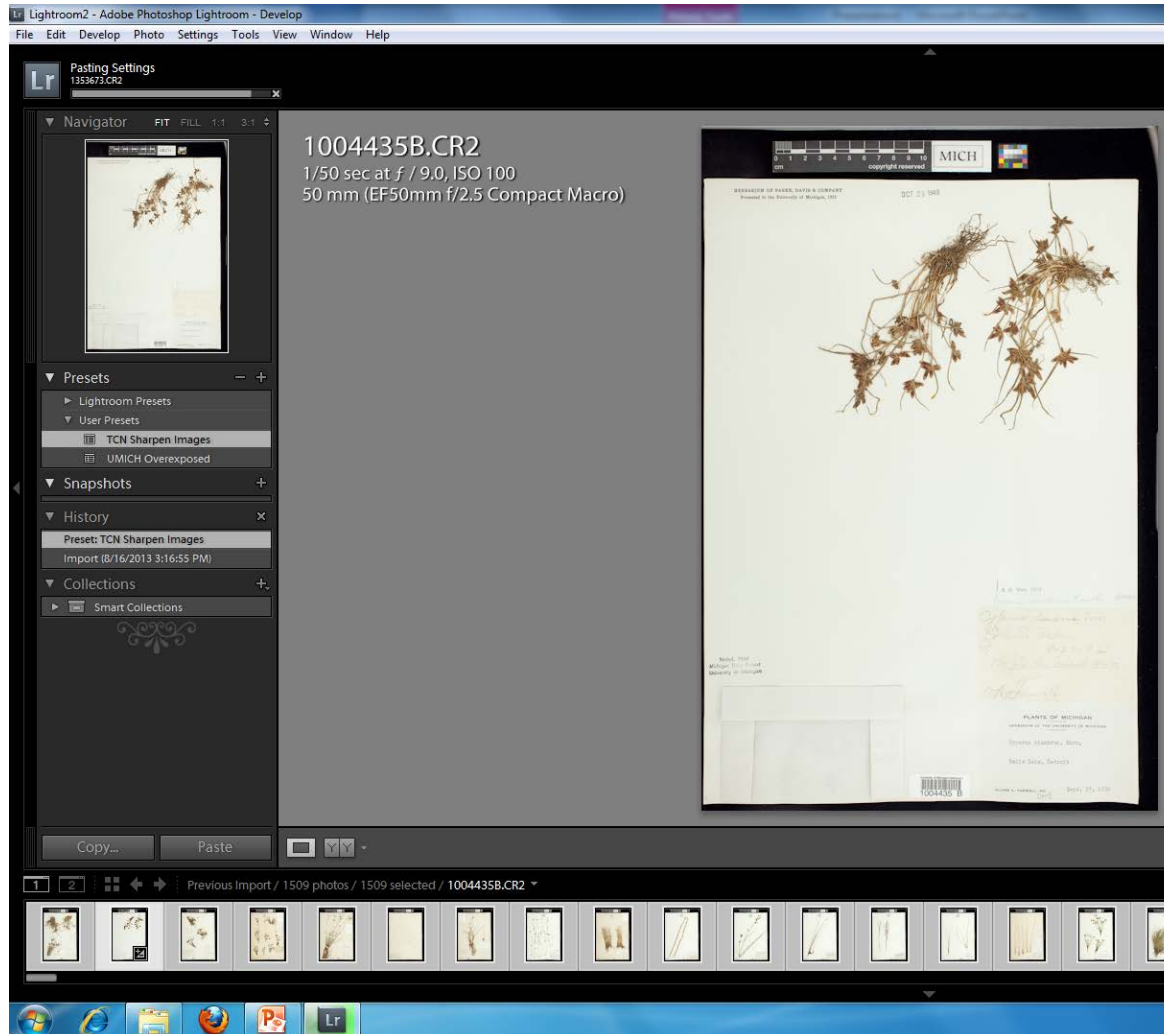
7 – from Photo menu, select "Save Metadata to File"
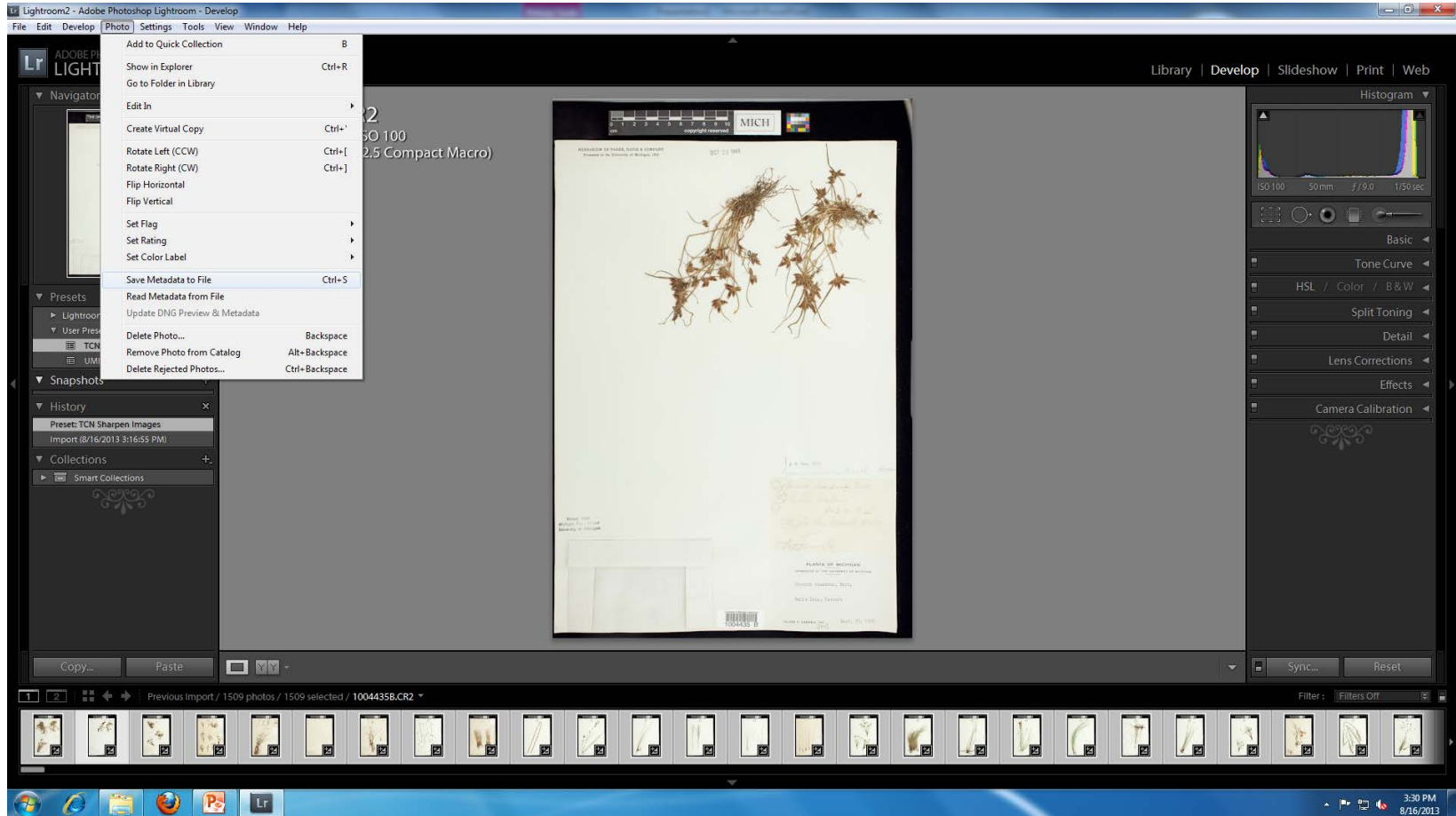
8 – Library Module, Library menu, select "Convert Photos to DNG"

Confirmation box before conversion begins

Progress of DNG conversion
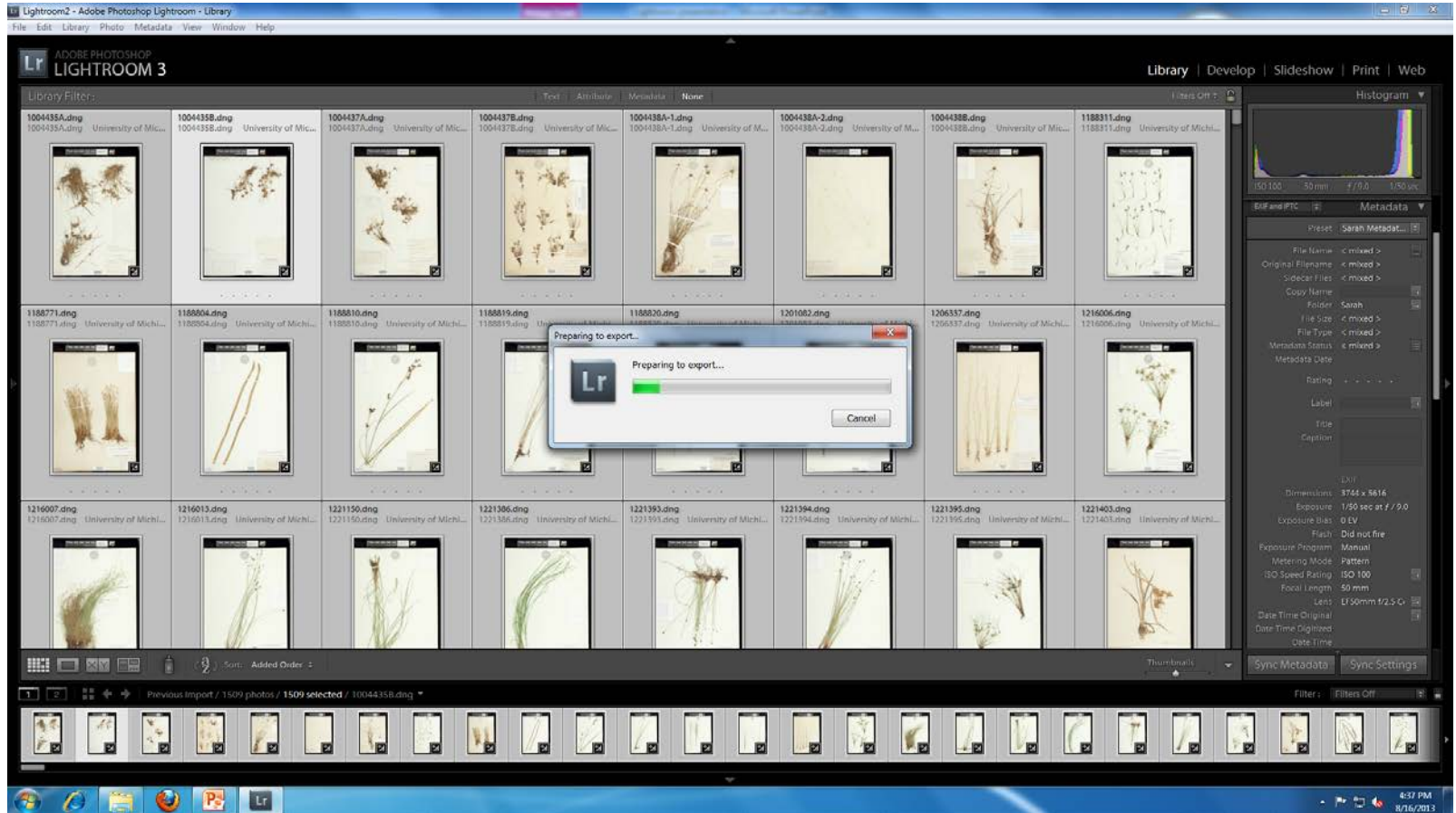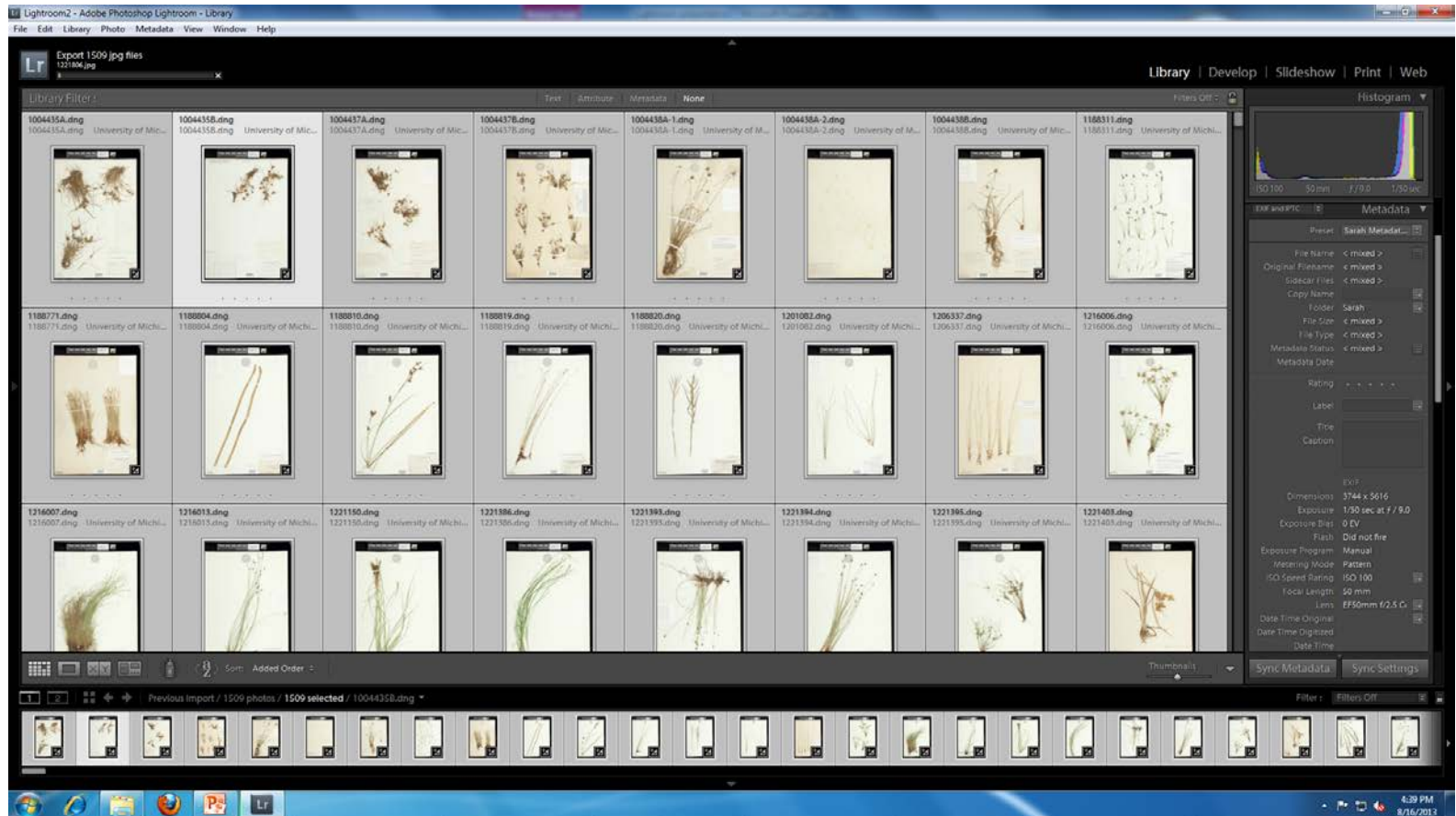
9 – from File menu, select "Export"
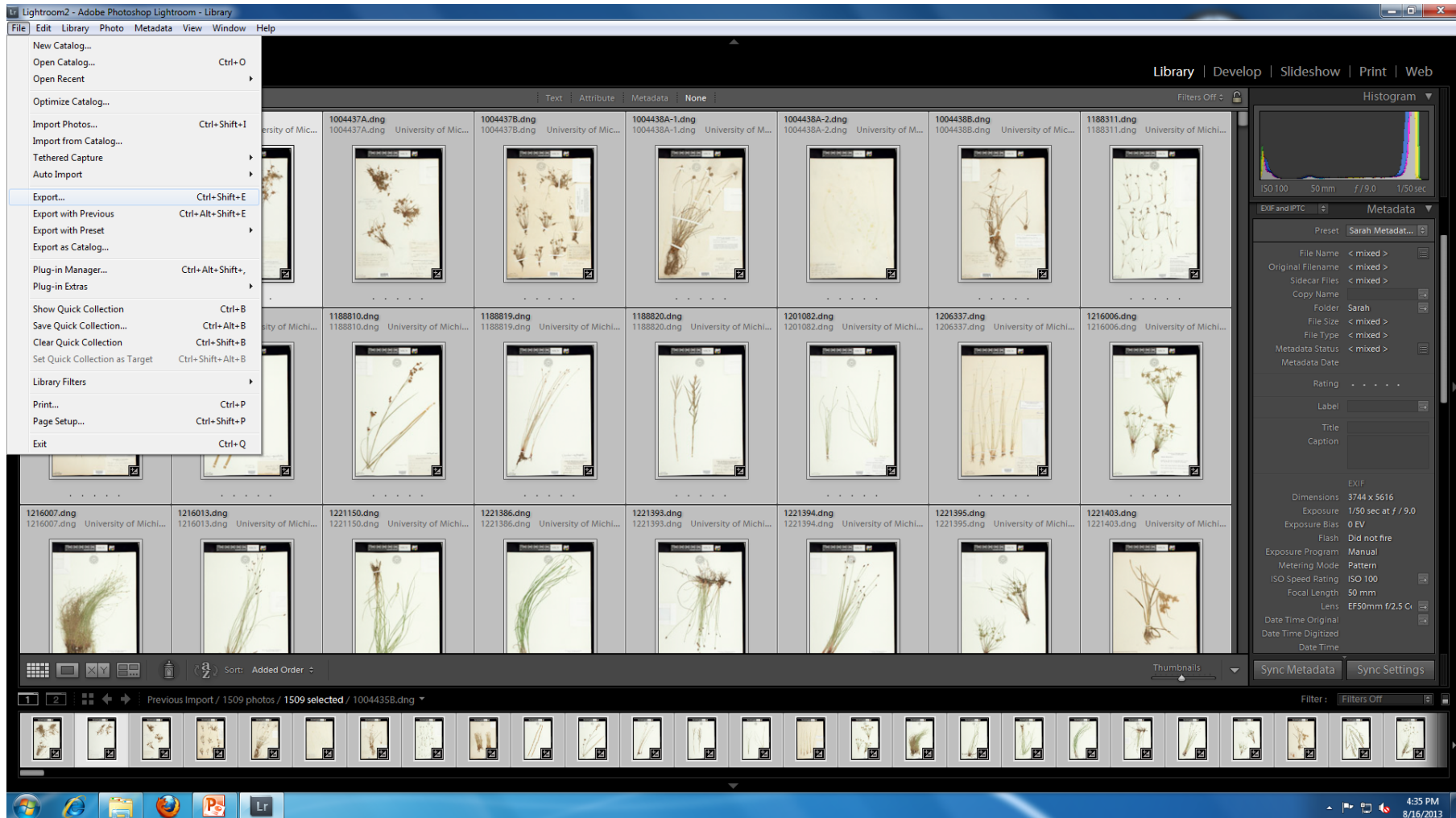
Check box to affirm settings
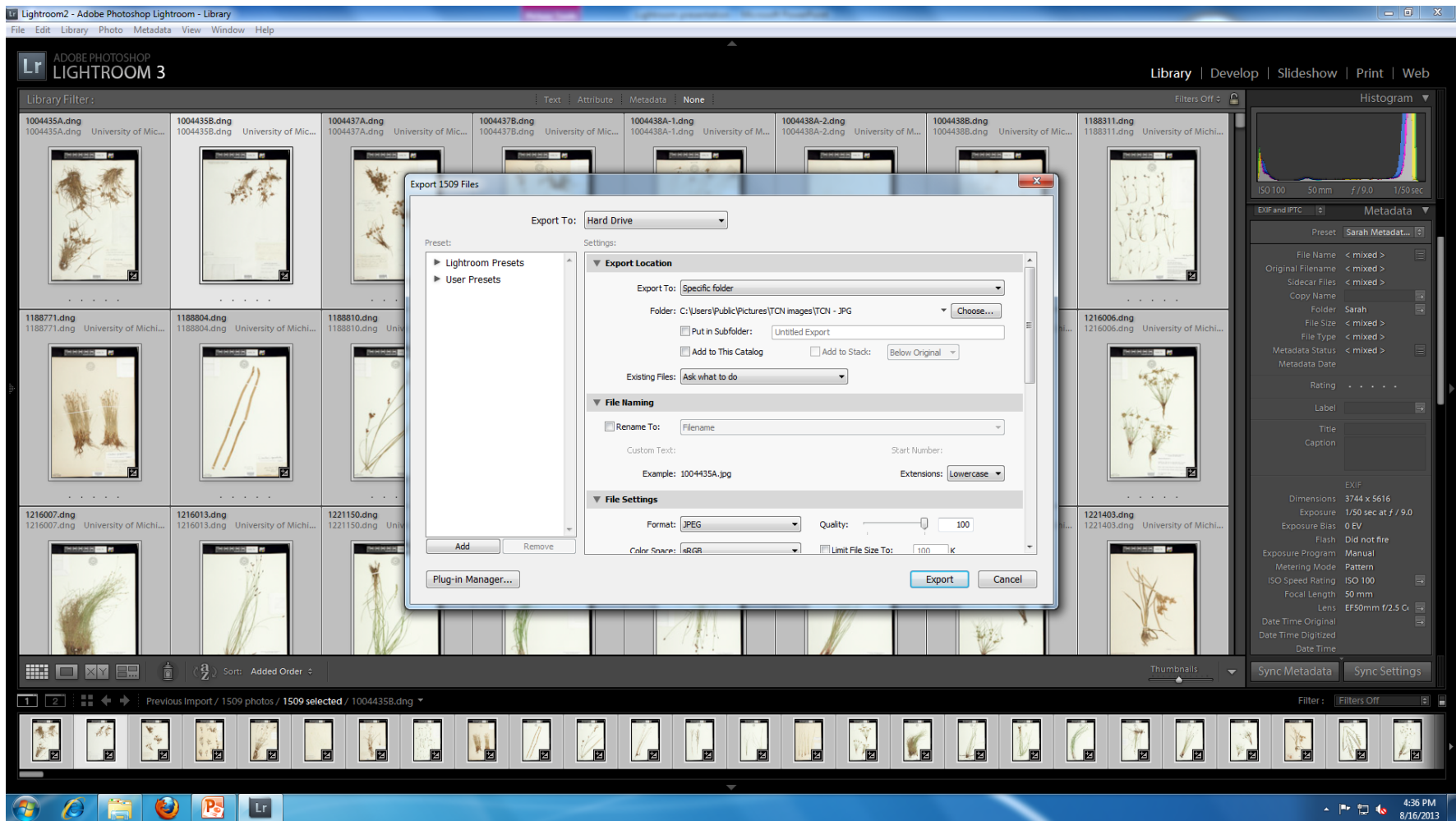
Confirmation of Export

Watching progress of Export

Post Lightroom tasks

- Check folders for any desired file size statistics
- Move both JPG and DNG files to available off-computer storage (network server, backup drives, etc.

Acknowledgements