

Change Detection Protocol

Field Guide

Task

Use MultiSpec to combine the digital data for two images of your GLOBE Study Site (acquired a few years apart) into one composite image and analyze the composite to learn about the land cover type changes that have occurred.

What You Need

- Introduction to the MultiSpec Program and the Change Detection Tutorial*
- MultiSpec computer software
- MUC data from previous land cover type map classifications
- 2 - 512 x 512 pixel Landsat TM registered image data of the 15 km x 15 km GLOBE Study Site (disks provided by GLOBE), one recent, one a few years old
- Computer

What To Do

1. Compare the hard copies of the Landsat TM images from the two different dates. What are the differences that you see between them?
2. Start the MultiSpec program on the computer.
3. From the **File** menu, select **Open Image**.
4. Select and open the older image of your GLOBE Study Site. It is labeled _____. Follow the defaults in the *Change Detection Tutorial*.
5. Select and open the newer image of your GLOBE Study Site. It is labeled _____. Check the **Link to Active File** box.
6. Reformat, name and save the new image (called _____) using the directions in the *Change Detection Tutorial*.
7. Open the new image and follow the directions in the *Change Detection Tutorial* for saving the statistics.
8. Examine the image for change by following the defaults in the *Change Detection Tutorial*.
9. Save the developed land cover image (1, 6, 1) and the vegetative image (4, 9, 4) used for comparison as TIFF files. See you teacher for further instructions on submitting them to GLOBE.