What is DEVELOP?

NASA workforce development program that collaborates with decision makers to conduct environmental research projects using NASA Earth observations.

350 Participants & 80 Projects Per Year
GLSLCI and DEVELOP partnership facilitates a direct line of communication between decision makers in the Great Lakes region and NASA and other US Federal agency Earth observations and resources

**Highlight Projects:**
- Extreme Precipitation Event Analysis
- Stormwater Runoff Impacts on Lake Erie
- Soil Erosion Potential in Duluth

Dr. Kenton Ross (NASA), Dave Ullrich (GLSLCI), and Ande Ehlen (DEVELOP) at 2012 GLSLCI Annual Meeting
Precipitation Analysis

Rainfall for May 28, 2012 in Thunder Bay, Ontario
Precipitation Analysis

Rainfall for June 17th through June 20th, 2012

Rainfall in Millimeters

- 0 - 0.3
- 0.31 - 1
- 1.01 - 2
- 2.01 - 3
- 3.01 - 4
- 4.01 - 7
- 7.01 - 11
- 11.01 - 15
- 15.01 - 30
- 30.01 - 50

Thunder Bay, ON
Lake Superior
Duluth, MN

June 17th
Goal: Tool for monitoring stormwater runoff from intense precipitation events and any associated changes in water quality.

Total suspended sediment (TSS) images before the intense rainfall event (left) and six days after (right).
Soil Erosion

Goal: Erosion susceptibility tool for city planners to identify which locales may be at highest risk of erosion problems.
Thank You!

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