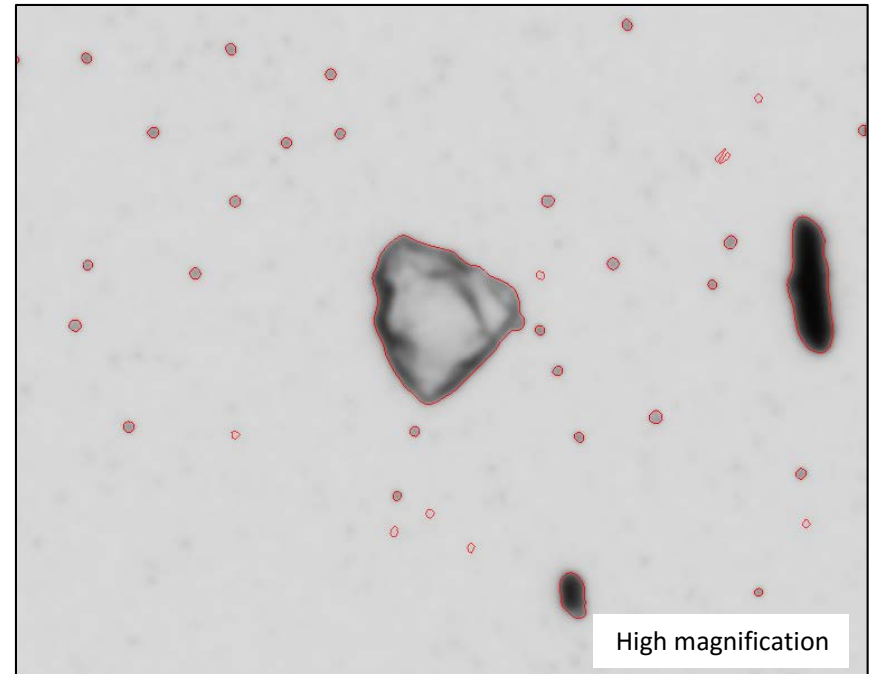
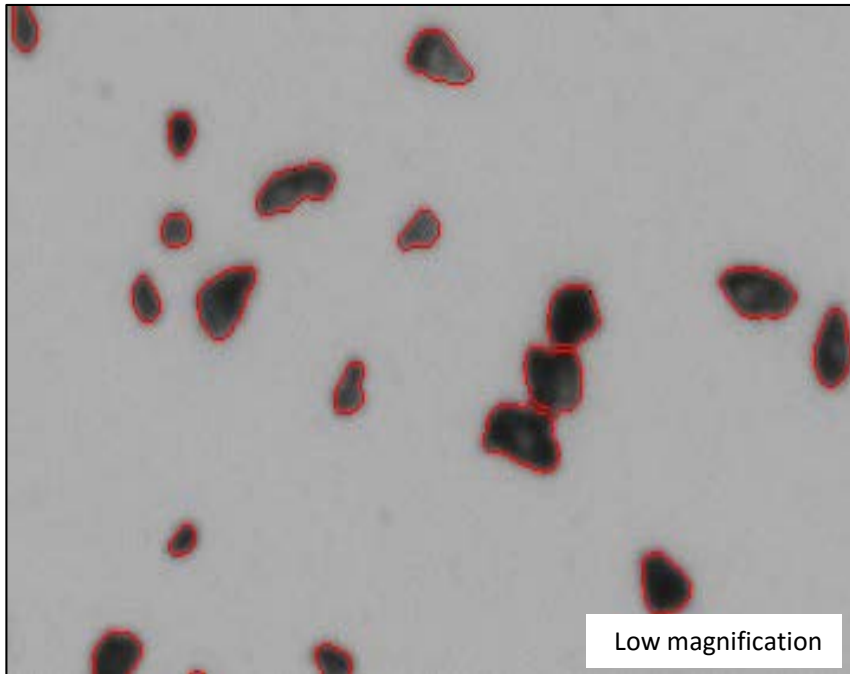


Digital Imaging for Particle Analysis and Characterization: A Progress Update

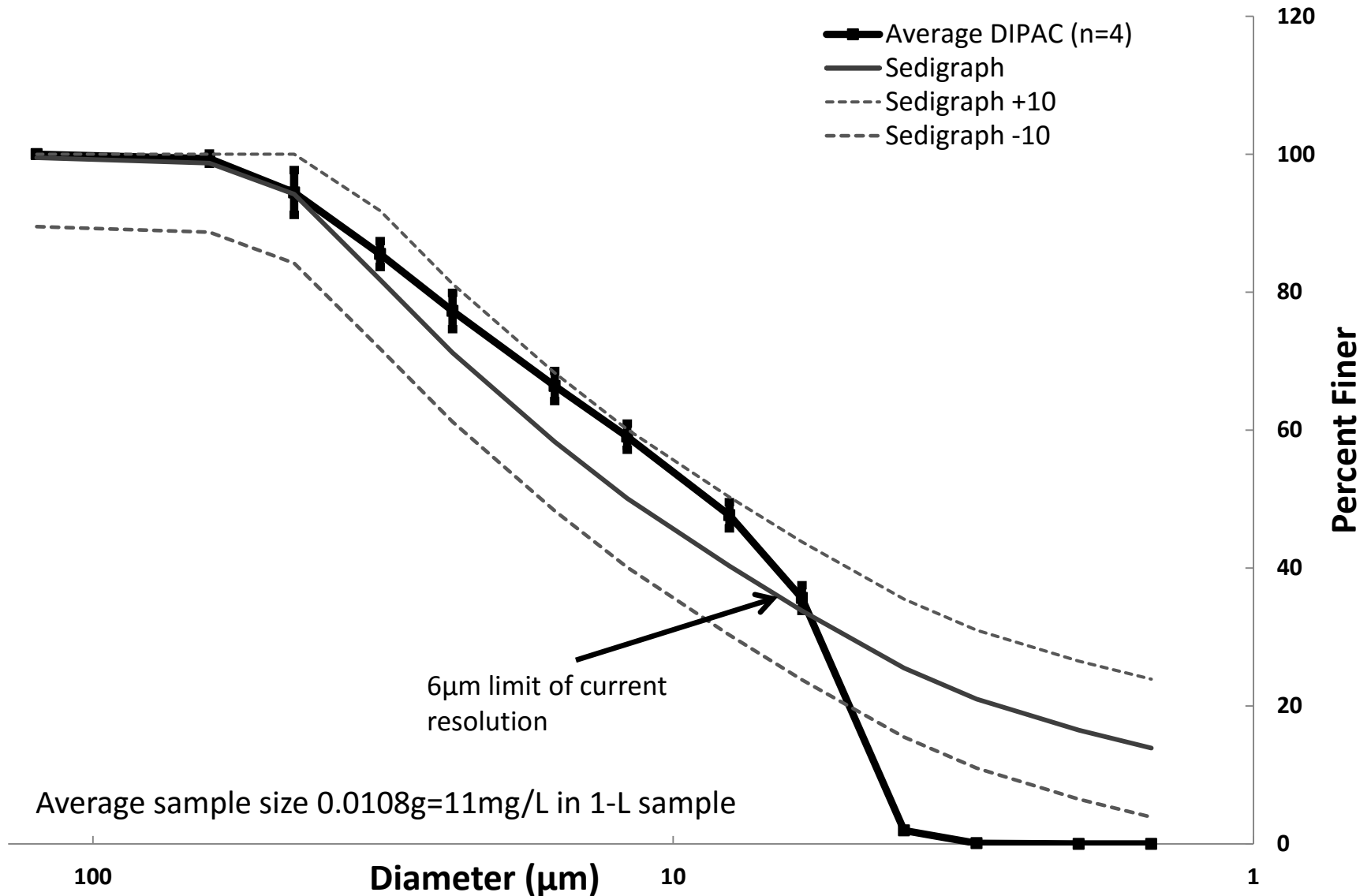


November 2011

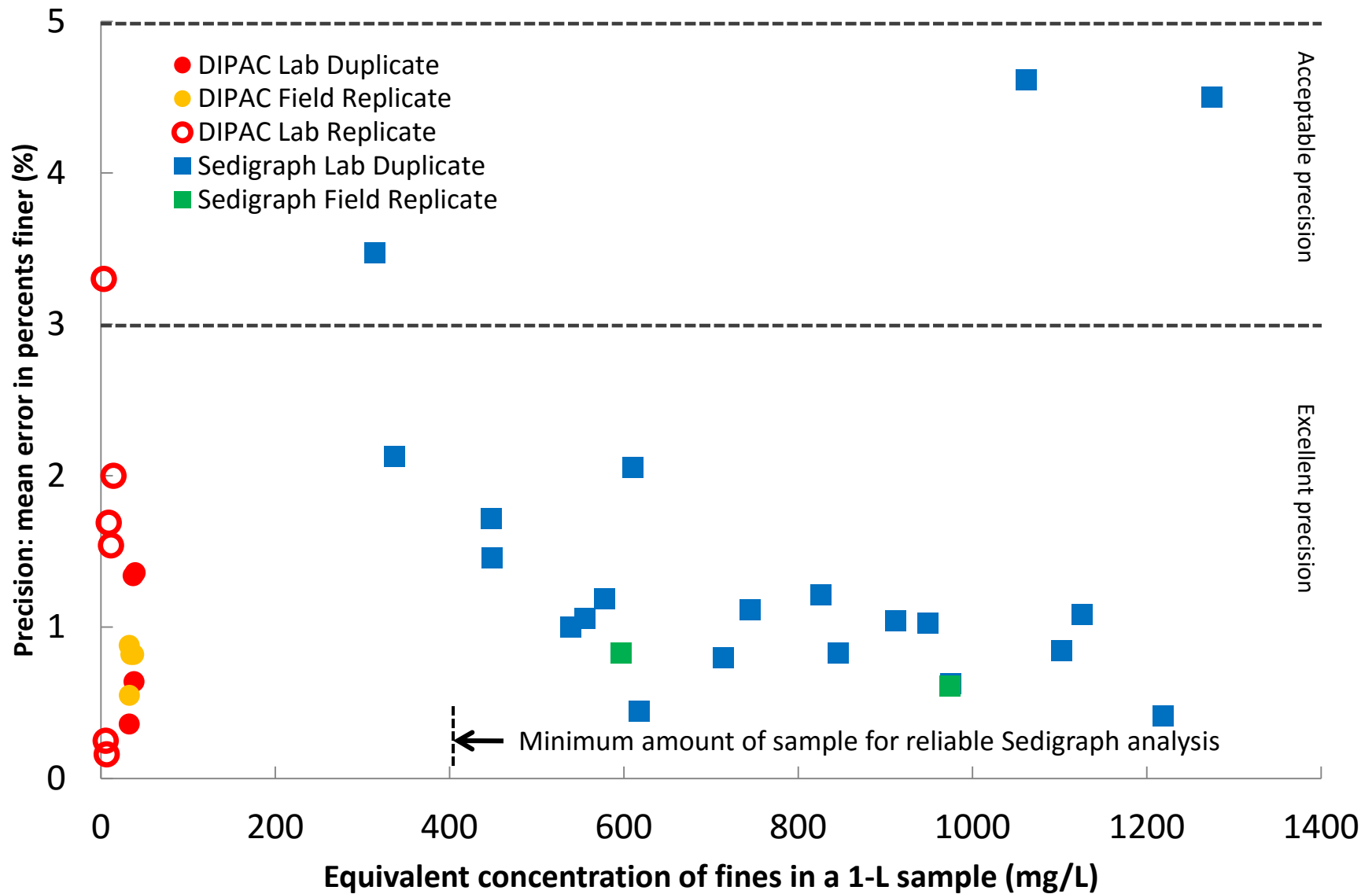
Dan Gooding and Kate Norton

USGS Cascades Volcano Observatory Sediment Laboratory

Particle Size Distribution results agree well with Sedigraph down to 6 μ m:

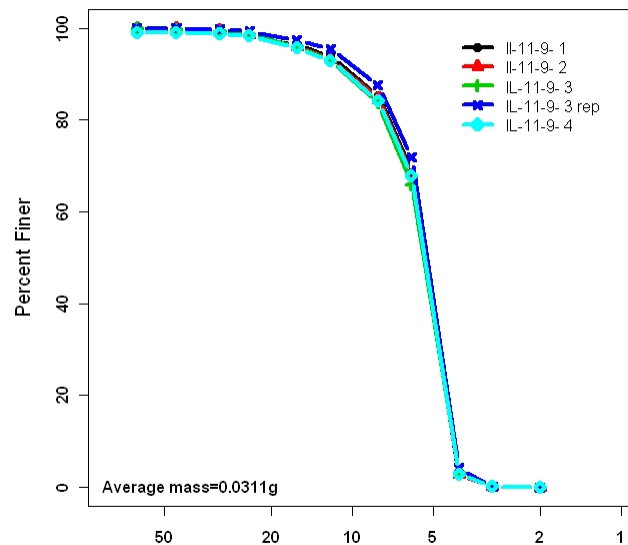


Very little mass required to achieve excellent precision:

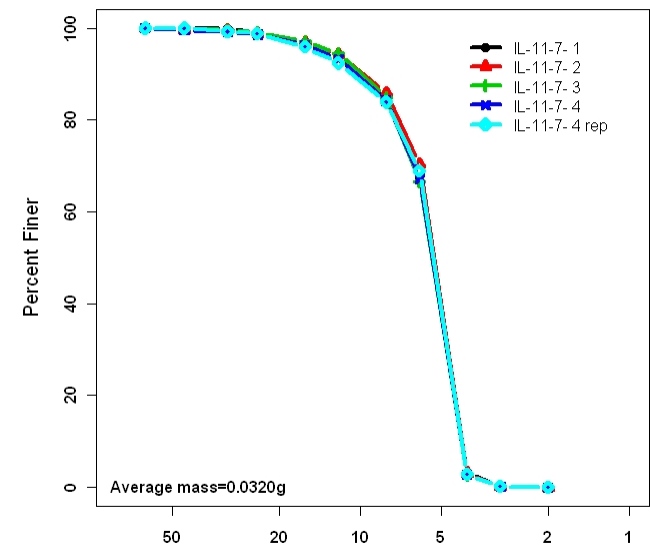


Excellent repeatability for very light samples:

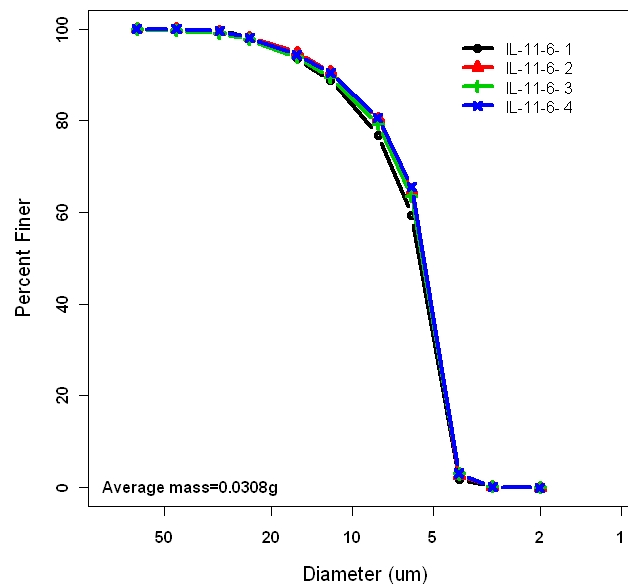
IL River at Chillcothe 4/20/2011 1507 to 1514 Fines



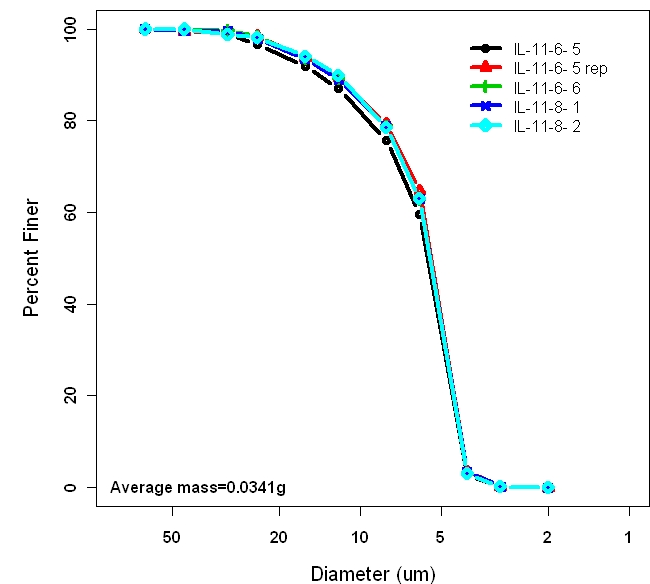
IL River at Chillcothe 4/20/2011 1522 to 1530 Fines



IL River at Meredosia 5/10/2011 1446 to 1451 Fines



IL River at Meredosia 5/10/2011 1459 to 1509 Fines



Field samples collected by
Tim Straub, USGS IL Water
Science Center and analyzed
at the CVO Sediment Lab
Summer 2011

Field sample data correlated well with the Sedigraph at reported sizes:

