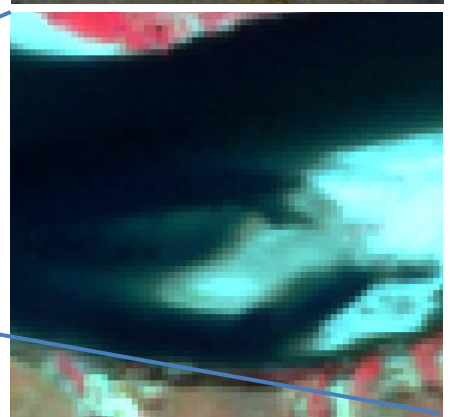
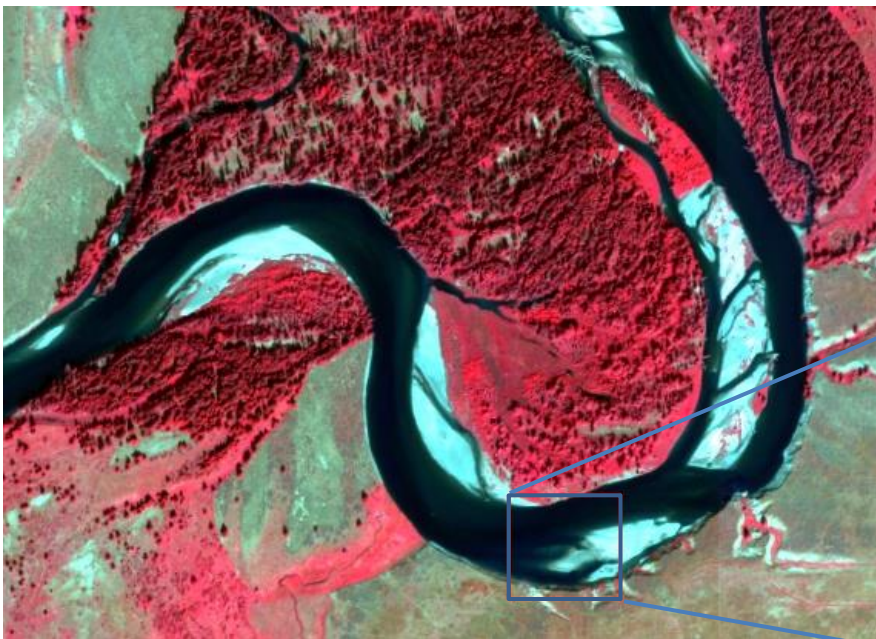


Course announcement for Spring Semester 2014

# Remote Sensing of Rivers

Dr. Carl J. Legleiter, Department of Geography  
TR 9:35-10:50 + F 2:10-4:00; A & S Bldg., Rm. #314  
GEOG 4455/5455; 4 credits; CRN = 27663/27664

Remote sensing has emerged as a powerful tool for the study of river systems, allowing scientists and managers to examine channels, riparian zones, and associated habitats across a range of scales, from individual reaches to entire watersheds. The Department of Geography will offer a unique class on Remote Sensing of Rivers in Spring 2014. Topics to be covered include: 1) the physical basis for deriving river information from optical image data; 2) techniques for mapping water depth and in-stream habitat; and 3) approaches for measuring channel change using data sources ranging from historical aerial photography to state-of-the-art LiDAR systems. Various computational tools will be applied to example data sets throughout the course, providing students with hands-on experience and practical skills. Please contact the instructor with any questions: [Carl.Legleiter@uwyo.edu](mailto:Carl.Legleiter@uwyo.edu), 766-2706, A&S #332.



**Above:** WorldView2 satellite image of the Snake River showing variations in brightness related to water depth.

**Top right:** Field measurements of spectral reflectance.