

Effects of the Development and Disturbance on Boreal Forest Cover and Carbon Fluxes in Southern Siberia

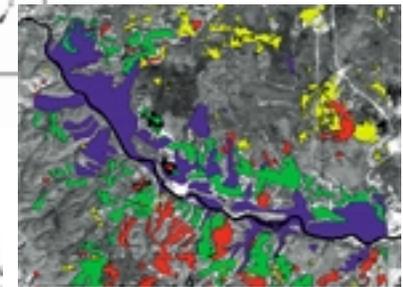
P.I. Eric Kasischke, ERIM International

- To understand the role of human disturbance on patterns of carbon storage and assessment along the Baikal-Amur Mainline (BAM) Railroad.
- Create a baseline fire location map 1980-1990 using AVHRR to estimate carbon losses.
- Use Landsat to create maps of landuse change in selected areas along the BAM.
- Develop model of forest regrowth and combine with satellite imagery to estimate carbon fluxes along BAM.
- Large area coverage (Landsat) and high spatial resolution sensors (DISP) can be used together for effective monitoring of forest change
- Addresses IPCC goal to better understand disturbance influence on regional carbon fluxes

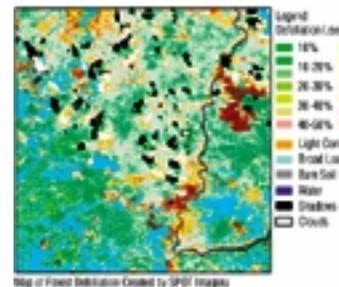
1998 Sever Fires mapped from AVHRR



Deforested Areas near the Chuna River 1965-1990 from DISP and Landsat



Defoliation in the Biryusa River Basin from Siberian Silkworm 1994-1996 from SPOT Imagery



Model output

