

Estimating and Monitoring Effects off Area Burned and Fire Severity on Carbon Cycling, Emissions, and Forest Health and Sustainability in Central Siberia

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USDA Forest Service--

- Research and Development, Washington, DC
- Fire Sciences Laboratory, Missoula, Montana
- Sequoia National Forest

Canadian Forest Service, Sault Ste. Marie, Canada



Background

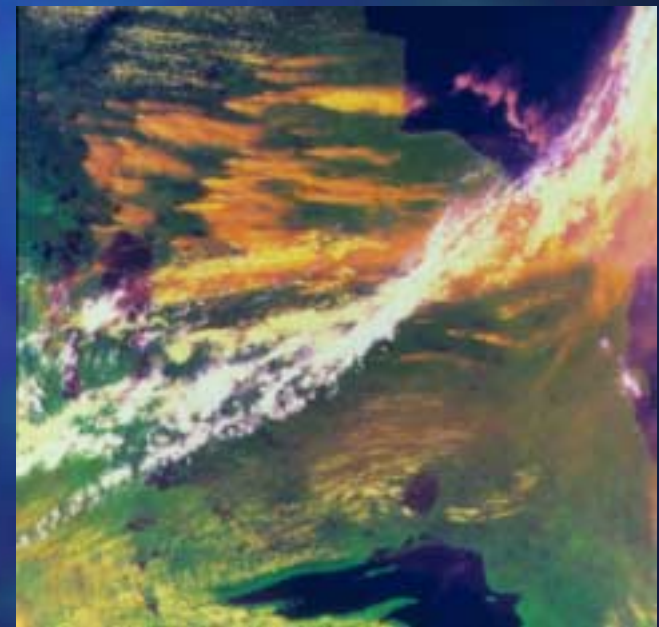
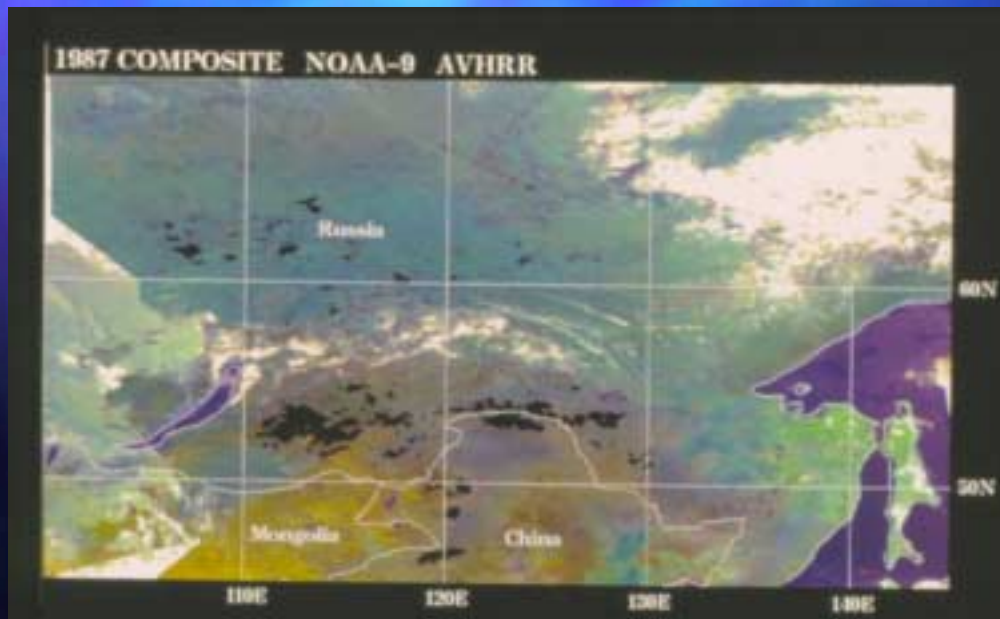
- Over 30% of global terrestrial biomass is in boreal forests, 2/3 of this in Russia.
- Globally there are about 1.2 billion ha of boreal forest and woodlands.
- Wildland fire affects some 14 to 15 million ha of boreal forest annually.

Average burned areas, 1990-1999
(million ha)

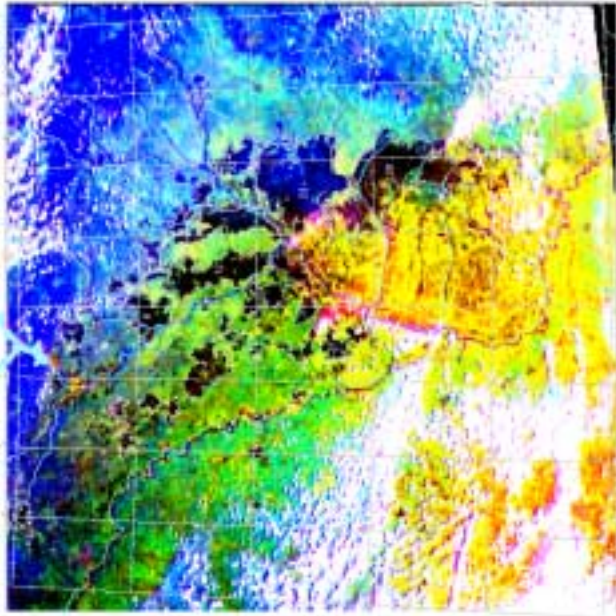
Canada	2.7
USA (w/o Alaska)	1.5
Russia	5-12

Siberia/Mongolia border

NW Ontario, Canada



Burned areas in Anur char region
12.05.08 08:32 GMT
Imaged with MODIS-14



Color scale of index 20103 (4 eq. 10)



MODIS index 08

1 - 2

24 - 41

41 - 100

100 - 100

100 - 100

100 - 100

100 - 100

100 - 100

100 - 100

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100 - 100

100 - 100



1:2000000

VIR Satellite Institute of Forest
Lab. Tropical Fire Research, Sarawak & GBS

