FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

Prescribed Burning Demonstration Sites - Site Description and Objectives -		**Local Site Name: 618**	
Country: Russia	Region: Krasnoyarsk		Location: dark coniferous forest clearcut; right bank of Yenisey river (Yenisey Ridge)
Unit No./Admin. Unit: Unza district Planning quarter # 83	Owner: Usolie leskhoz (forest management enterprise)		Site area (ha): 15
UTM zone:	UTM (x): 94° 03' E UTM (y): 57° 13' N	Map / Aerial photo : o No	
First established: 21 August 1997	Area(s) burnt (ha): 7	Fire return interval (or time since last burn, or next burn planned): 180 years – average fire return interval for dark coniferous forests	
Number of plots (in case of an array of sub-plots for experimental repetitions, particular site differences or high number of operationally burned sites: one plot was burned once			
Special remarks:			

Purpose of Treatment:	
Specific Treatment Objectives: slash removing, stimulation of conifers regeneration	Objectives reached? Yes Specify: but duff consumption is not enough for 20 % of logged area

Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)	
Wind speed (m/s): 2	Wind direction: S
Relative humidity (%): 52	Soil moisture: No data
Air temperature (°C): 21	Burn period (time of year): fall
What problems do occur? Too much vegetating plants	

Site description				
Vegetation type (main species): mixed forest with dominating of dark coniferous species: Abiec sibirica, Picea sibirica, Pinus sibirica, Betula pendula, Populus tremula		Annual mean precipitation (mm/a): 450-600		Mean precipitation during time of burn (mm): 0
Fuel load (target fuel) (t ha^{-1}): 133 locally		Annual mean temperature (°C): -8		Mean temperature during time of burn (°C): 21
Fuel description: Slash (40% is gathered in piles) + forest litter				
Topography: flat	Slope (%) 0	Aspect: -	Altitude (m a.s.l.): 300	Soil conditions: Podsol loam
Other: prescribed burn # 9/97 in a book Valendik et al., 2000				

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Burn team specifications	
Parties involved: VN Sukachev Institute of forest SB RAS Usolie leskhoz (forest management enterprise)	Specific expertise or training: γ Yes Please specify: experimental burn

Documentation of demonstration site		
Management plan: γ Simple management plan	Burn protocol: γ Yes	Monitoring of γ Weather data γ Fuel accumulation γ Fire behaviour

Presentations: *Further information available.*

Photos/ videos:

Photos were taken to estimate pre- and post burning conditions, as well as fire behaviour

Publications:

Valendik, E.N., Vekshin, V.N., Verkhovets, S.V., Zabelin, A.I., Ivanova, G.A. and Kisilyakhov, Ye.K. Prescribed Burning of Logged Sites in Dark Coniferous Forests. SB RAS Publishing, Novosibirsk. 2000, 209 pp (in Russian).

Kisilyakhov Y.K., E.N. Valendik, G.A. Ivanova, V.D. Perevoznikova, S.V. Verkhovets. Use of BEHAVE for forest fire experiments and prescribed fires in Siberia // Disturbance in boreal forest Ecosystems: Human Impacts and Natural Processes. S.G. Conard, ed. Proceedings of the International Boreal Forest Research Association 1997 annual meeting; 1997 August 4-7; Duluth, Minnesota, USA. Gen. Tech. Rep. NC-209. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station, 2000. – 435 pp.

Verkhovets S.V. Duff consumption during slash burning In: Proceeding of Conference «Components investigations of Siberian forest ecosystems» # 3, 2001, P. 22-24. (in Russian)

Contact details (person or institution in charge of the site and / or submitter of this information:

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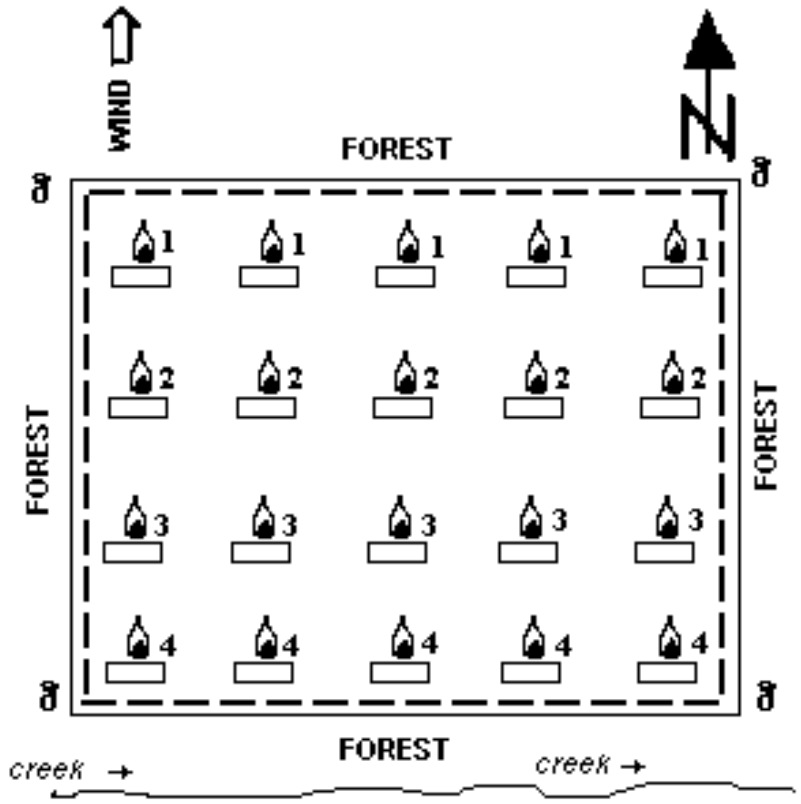

LEGEND:

- fireline
- road for logs transportation by forwarder
- 5 - spot burning of slash fuels on piles and sequence of ignition
- arrangement of fire fighters