FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

Prescribed Burning Demonstration Sites - Site Description and Objectives -		**Local Site Name: 613**	
Country: Russia	Region: Krasnoyarsk		Location: dark coniferous forest clearcut; right bank of Yenisey river (Yenisey Ridge)
Unit No./Admin. Unit: Predivinsk district planning quarter # 17	Owner: Bolshaya Murta leskhoz (forest management enterprise)		Site area (ha): 35
UTM zone:	UTM (x): 93° 53' E UTM (y): 57° 12' N	Map / Aerial photo : o Yes (Please attach) Y No	
First established: 26 June 1997	Area(s) burnt (ha): 35	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: burned at once with initial central fire spot			
Special remarks: ignition at noon			

Purpose of Treatment:	
Specific Treatment Objectives: slash removing, conifer forest regeneration stimulation, saving of groups of young trees (preliminary forest regeneration)	Objectives reached? Y Yes o No Specify: partially due to high load of vegetating plants

Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)	
Wind speed (m/s): - 0	Wind direction: - 0
Relative humidity (%): 60	Soil moisture: No data
Air temperature (°C): 22	Burn period (time of year): late spring
What problems do occur? High load of vegetating plants decreased burn intensity	

Site description				
Vegetation type (main species): mixed forest with dominating of dark coniferous species: *Abies 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}): 112 locally		Annual mean temperature (°C): -8		Mean temperature during time of burn (°C):15
Fuel description: Slash (40% is gathered in piles) + forest litter + lot of vegetating plants				
Topography: flat	Slope (%) 5	Aspect: South	Altitude (m a.s.l.): 200	Soil conditions: Podsol loam
Other: prescribed burn # 4/97 in a book Valendik et al., 2000				

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Burn team specifications	
Parties involved: VN Sukachev Institute of forest SB RAS Bolshaya Murta leskhoz (forest management enterprise)	Specific expertise or training: γ Yes o No Please specify: experimental burn with personnel training

Documentation of demonstration site		
Management plan: o Detailed management plan γ Simple management plan o none	Burn protocol: γ Yes o No	Monitoring of γ Weather data γ Fuel accumulation γ Fire behaviour o Smoke
Presentations: *Further information is 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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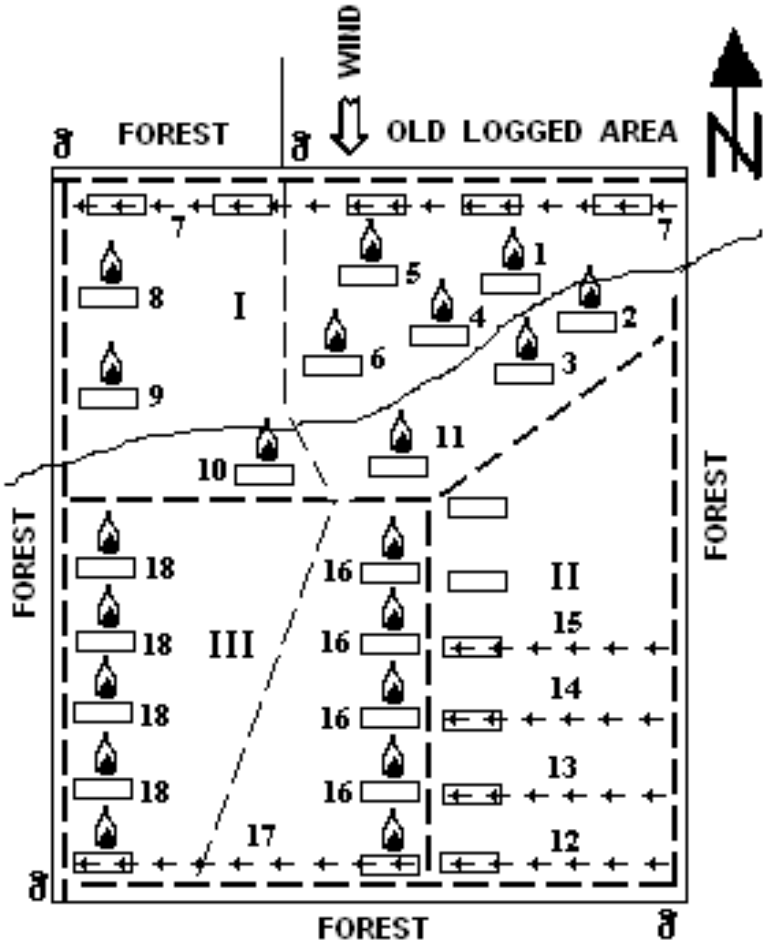

LEGEND:

- fireline
- small road for logs transport
- spot burning of slash fuels on piles
- direction and sequence of line ignition
- arrangement of fire fighters