

**FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet**

<b>Prescribed Burning Demonstration Sites - Site Description and Objectives -</b>		<b>Local Site Name: 620</b>		
Country: Russia		Region: Krasnoyarsk		Location: dark coniferous forest clearcut; left bank of Yenisey river
Unit No./Admin. Unit: Krasnye Klyuchi district planning quarter # 27		Owner: Bolshaya Murta leskhoz (forest management enterprise)		Site area (ha): 14
UTM zone:	UTM (x): 92° 33' E		Map / Aerial photo : <input type="radio"/> Yes (Please attach) <input checked="" type="radio"/> No	
	UTM (y): 57° 03' N			
First established: 30 August 1999	Area(s) burnt (ha): 14		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				
Special remarks: Ignition at 15:00				
<b>Purpose of Treatment:</b>				
Specific Treatment Objectives:  slash removing, conifer forest regeneration stimulation, saving of groups of young trees (preliminary forest regeneration)			Objectives reached? <input checked="" type="radio"/> Yes <input type="radio"/> No Specify: slash fuel removed for regeneration	
<b>Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)</b>				
Wind speed (m/s): - 2		Wind direction: - South		
Relative humidity (%): 40		Soil moisture: No data		
Air temperature (°C): 19		Burn period (time of year): summer		
What problems do occur? Small firewirls				
<b>Site description</b>				
Vegetation type (main species): mixed forest with dominating of dark coniferous species: <i>Abies sibirica, Picea sibirica, Pinus sibirica, Betula pendula, Populus tremula</i>		Annual mean precipitation (mm/a): 450-600		Mean precipitation during time of burn (mm): 0
Fuel load (target fuel) (t ha <sup>-1</sup> ): 200 locally		Annual mean temperature (°C): -8		Mean temperature during time of burn (°C): +15
Fuel description: Slash (90% is gathered in piles) + forest litter				
Topography: flat	Slope (%): 0	Aspect: -	Altitude (m a.s.l.): 200	Soil conditions: Podsol loam
Other: prescribed burn # 3/99 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 leskhov (forest management enterprise)		Specific expertise or training: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Please specify: Experiment with personnel training
Documentation of demonstration site		
Management plan: <input type="checkbox"/> Detailed management plan <input checked="" type="checkbox"/> Simple management plan <input type="checkbox"/> none	Burn protocol: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitoring of <input checked="" type="checkbox"/> Weather data <input checked="" type="checkbox"/> Fuel accumulation <input checked="" type="checkbox"/> Fire behaviour
Presentations: <i>Further information is available</i>		
Photos/ videos: Photos were taken to estimate pre and post burning conditions, as well as fire behaviour		
<b>Publications:</b>  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)		
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