

FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

Prescribed Burning Demonstration Sites - Site Description and Objectives -		Local Site Name: NSG Morsum Kliff	
Country: Germany	Region: Schleswig-Holstein, Nordfriesland	Location: Sylt, Morsum	
Unit No./Admin. Unit:	Owner: Private	Site area (ha): 43 ha	
UTM zone:	UTM (x): 346547	Map / Aerial photo : <input type="radio"/> Yes (Please attach) <input checked="" type="radio"/> No	
	UTM (y): 608306		
First established: 2005	Area(s) burnt (ha): 0.06	Fire return interval (or time since last burn, or next burn planned): Next burn planned for 2018	
Number of plots (in case of an array of sub-plots for experimental repetitions, particular site differences or high number of operationally burned sites): 1			
Special remarks:			
Purpose of Treatment: Restoration of Calluna heathland			
Specific Treatment Objectives:		Objectives reached? <input type="radio"/> Yes <input type="radio"/> No Specify: not clear	
Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)			
Wind speed (m/s): 5		Wind direction: NW	
Relative humidity (%):		Soil moisture:	
Air temperature (°C):		Burn period (time of year): September	
What problems do occur?			
Site description			
Vegetation type (main species): Atlantic empetrum heath (Geestheide)	Annual mean precipitation (mm/a): 800	Mean precipitation during time of burn (mm): 1	
Fuel load (t ha ⁻¹):	Annual mean temperature (°C):	Mean temperature during time of burn (°C):	
Fuel description:			
Topography:	Slope (%) 0	Aspect:	Altitude (m a.s.l.): 15
Soil conditions:			
Other:			



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Burn team specifications		
Parties involved: GFMC	Specific expertise or training: <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No Please specify: Dune <i>Calluna</i> habitat burning experience	
Documentation of demonstration site		
Management plan: <ul style="list-style-type: none"> <input type="radio"/> Detailed management plan <input type="radio"/> Simple management plan <input type="radio"/> none 	Burn protocol: <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No 	Monitoring of <ul style="list-style-type: none"> <input type="radio"/> Weather data <input type="radio"/> Fuel accumulation <input type="radio"/> Fire behaviour <input type="radio"/> Smoke
Presentations: see Publications		

Photos / videos: July 2018



*Nature Reserve Morsum Heath on Sylt Island during the prescribed burn for conservation of *Calluna vulgaris* heath on 17 July 2018 (upper), immediately after the fire (middle) and an aerial view on 18 July 2018. Photos: Courtesy Naturschutzvereinigung Sylt (Sylt Nature Conservation Association).*

August 2019



Morsum Heath post-fire impressions one year later (10 August 2019) showing successful result of the prescribed fire: Clean burn and mosaic patches of unburned depressions and tree-brush clusters (upper photo) and transition to the wet depression Southern fringe of the burned site. Photos: GFMC.

Publications: 2018 burn and follow-up :

<https://gfmc.online/programmes/natcon/gfmc-sylt-morsum-kliff-2018.html>