Tuesday, 26.09.2017: Day Trip Excursions

Vegetation, greenhouse gas balance and biomass use on rewetted peatlands in the Peene River valley

Guides: Dr. Wendelin Wichtmann & Christian Schröder (+ local guides/farmer)

Highlights: Polder Randow-Rustow, boat trip on Peene river, vegetation types and the greenhouse gas emission site type (GEST) approach mown rewetted peatland sites near lake Kummerow, rare wetland species favoured by mowing, the pioneering paludi-biomass heating plant in Malchin.

Land use history, mowing machinery and biomass use for building material at Peene river mouth

Guides: Dr. Franziska Tanneberger & Tobias Dahms (+ local guides/farmers)

Highlights: Harvesting machinery for reed cutting (tracked vehicles, vehicles with balloon tyres), harvesting sites for thatch, drained peatland used as grassland, large formerly drained peatland flooded and abandoned after dike break, cormorant colony and white-tailed sea eagles, tourist house insulated with cattail and thatched with reed, boat trip, light tractors for mowing wet peatlands, weaving loom for the production of mats from reed.

Peatland rewetting, land use and birds in Lower Peene river valley

Guides: Dr. Nina Seifert & Dr. Cosima Tegetmeyer (+ local guides/farmers)

Highlights: Nature park visitor centre in Stolpe, land use history, implementation of a large-scale peatland restoration project and designation of new nature reserves in 20,000 ha, breeding and migrating birds on flooded former polders near Anklam, organic farming and local marketing along the river valley, large-scale compensation project on peatland restoration and low-intensity grazing with horses and cattle, motor mower with ultra-wide cutter bars used for conservation management.

Peatland research on mown and grazed rewetted peatland in Recknitz and Trebel river valleys and on Darss peninsula

Guides: Anke Nordt & Andreas Haberl (+ local guides/ farmers)

Highlights: Study sites of the major research project on matter dynamics in rewetted peatlands of Greifswald and Rostock universities (funded under the regional excellence initiative), sites rewetted c. 15 years ago in a LIFE project, sites managed and monitored for biodiversity conservation, site-adapted mowing equipment, grazing sites with water buffalos on Darss peninsula, large flocks of migrating cranes.

Paludiculture on rewetted bogs near Oldenburg

Guides: Matthias Krebs (+ local guides/farmers)

Highlights: Sphagnum farming site, sundew cultivation and use opportunities for medicine or food, land use opportunities on bog grassland, peat extraction site, horticultural trials.

Paludiculture plants and salt meadows near Greifswald (half day trip)

Guides: Susanne Abel, Claudia Oehmke and John Couwenberg

Highlights: Paludiculture plants in the Botanical garden of Greifswald University; excursion to salt meadows "Karrendorfer Wiesen", study site of the large research project on matter dynamics in rewetted peatlands of Greifswald and Rostock universities, rewetted coastal flood peatland

Wednesday, 27.09.2017: International Conference Day 1

08:00 Registration		17. International co		•						
09:00 Welcome										
Key Notes										
09:20 Hans	Joosten	The contribution of paludic	ulture to clim	ate change	mitigation an	d adaptation				
09:50 Faizal	Parish	Climate-smart peatland use to improve livelihoods								
10:20 Coffee bre								1 .111 .1		
	: Case studies	Lanca Lanca different Delivel	It Dat			: Biomass: pro			landa Hairakka Dakakaa	
10:50 Hesti	Tata	Lesson Learned from Paludiculture Practices in Indonesia		Susanne Abel		New crops for wet peatlands: Using the Database of potential paludiculture plants (DPPP) to preserv				
		iliuollesia					peat soils	ai paidulcultui	e plants (DFFF) to preserv	
11:10 Wim	Giesen	The wavering path to palud	iculture in Inc	donesia	Aldert	van Weeren	-	and Typha as	s building material, best	
		•					practice tests on a realistic house restoration			
							project			
11:30 Ülo	Kask	The review of the results of	performed E	U projects			Impact of macrophyte harvesting and flooding of			
		on reed and meadow grasses in Estonia and Finland		I		regeneration and biomass among open access Wetlands: Implications for wetland management a changing climate				
44.F0 Ni-l-	Thous	Biomass and pathways for utilisation of reed in the			Custs	C!!-				
11:50 Niels	Thevs	Ili Delta, Kazakhstan		reed in the	Greta	Gaudig	Let it grow! Sphagnum biomass production on rewetted cut-over bog and bog grassland in Germany			
		iii Deita, Kazakiistaii								
12:10 Lorna	Parker	The great fen - a lowland pe	eatland resto	ration	_		- Cermany			
12:30 Lunch and				20.211	=					
Session 3a	: Greenhouse	gas emissions	Session 4a:	Economy a	and society		Session 5a	: Genetic and	species diversity	
14:30 John	Couwenberg	Vegetation as a proxy for GHG emissions from	Sabine	Wichmann	n Economics of		Hans	Brix	Growth response of	
					paludiculture				paludicrops to fertilization	
		peatlands: an update of			farming, reed	_				
44.50.4	6.11.11	the GEST-list	- L 14/	•	and cattail cu				D.L.P. L. L.	
14:50 Anna	Schlattmann	Development and trial of an evaluation tool for the	Frank W.	Croon	a renewable	se for reed as	Carla	Lambertini	Paludicrop plants have invasive traits - prevention	
		identification of the spatial			a reflewable	resource			is better than cure	
		potentials of								
		paludicultures – an								
		approach for the reduction $% \label{eq:control_eq} % \[\begin{array}{cccccccccccccccccccccccccccccccccccc$								
		of agricultural greenhouse								
		gas emissions								
15:10 Alexandra	Barthelmes	The contribution of	Tobias Dahms	Biomass harvest on wet		Viktar	Fenchuk	Will biomass oriented		
		drained organic soils to the globally emitted			different han	issessment of			conservation actions onl further threaten world's	
		greenhouse gases and			regimes using	•			largest refuge of a globa	
		emission hotspots			-	based model			threatened passerine?	
									A case for Zvaniec fen m	
									(Belarus), the Aquatic	
									warbler and reed winter burning and mowing	
15:30 Florence	Renou-	Rewetted peatlands with benefits: dispatch from	Ivan	Mettrop	Better Wette	_	Franziska	Tanneberger	Summer or winter? Ten	
	Wilson	Ireland's monitoring			spatial adapt regional trans				years of mowing in Rozwarowo marshes and	
		network			regional trans	310113			Peene valley - results on	
									vegetation and breeding	
									birds	
15:50 Coffee bre	ak and presen	tation of posters								
	: Greenhouse	gas emissions	Session 4b:	Economy a	-		Session 5k	o: Genetic and	l species diversity	
16:30 Anke	Günther	Paludiculture and	Uta	Berghöfer	Applying the		Matthias	Krebs	Species protection by	
		greenhouse gases: case			societal relat	•			paludiculture: Sphagnum	
		studies from three sites in northern Germany			nature: insight paludiculture				cultures as surrogate habitats	
		northern definiting			rewetting pro				nabitata	
16:50 Poul Erik	Laerke	Greenhouse gas balance of	Christoph Bus	Buschmann		-	Edgar	Karofeld	Performance of Sphagnu	
10.30 FOUI LIIK	2007110	paludiculture for biogas	C1310pi1	_ 0001111101111	agriculturally				species in experimental	
		production			peat soils: co				extracted peatland	
					the socio-eco	onomic and			restoration	
					ecologic busi					
					environment	of six				
17:10 Christian	Fritz	Cutting-of or salting-					Martha	Graf	Protection for optimal	
		down? Promising							Sphagnum growth	
		management tools to improve the carbon								
		footprint of paludicultures								
17:30 Summary (and feedback	, , , , , , , , , , , , , , , , , , , ,					· 			
20:00 Conference										

Thursday, 28.09.2017: International Conference Day 2

08:00	Registratio	n							
	Key Notes								
09:00		Grootjans	Peatland restoration and paludiculture for clean and						
		: Quality and	quantity of water and nutrients	Session 2b	•	oduction and utilisation			
09:40	Jeroen	Geurts	Nutrient recycling in rewetted peatlands used for paludiculture	Christel	Oberpaur	Sustainable harvesting of <i>Sphagnum magellanicum</i> moss in Chile: a case analysis			
10:00	Renske	Vroom	The influence of nitrogen input on biomass yield and nutrient sequestration in rewetted peatlands	Jan Felix	Köbbing	From natural peat moss to a commercial growing media constituent			
10:20	Brian	Sorrell	Nutrient preferences and limitations of paludicrops: insights from the photosynthesis-nitrogen relationship	Claudia	Oehmke	Combustibility and nutrient export potential of biomass from rewetted fens in North Eastern Germany			
10:40	Dominik	Zak	Managing nutrient and carbon release from inundated peatlands	Adam	Dubowski	Three phase technology of harvesting and transportation of biomass from wetlands to nearby warehouses			
11:00	Coffee bre	ak and presen	tation of posters						
	Session 6b	: Quality and	quantity of water and nutrients	Session 2c: Biomass: production and utilisation					
11:40	Alfons	Smolders	Azolla farming on rewetted peat soils	Jeroen	Pijlman	The potential of the paludiculture crop <i>Typha</i> in a dairy farming system: nutritional values and biomass yield driven by harvesting date and stand age			
12:00	Sandrine	Hugron	Sphagnum farming initiatives in Canada: an overview	Robert	Schwemmer	Cattail products for a mass market: insulation material based on cattail			
12:20	Kristina	Brust	The water balance of a Sphagnum farming site in Northwest Germany	Martin	Krus	Typha angustifolia as a basis for the development of a new building material with multiple environmental and practical advantages			
12:40	Ralph	Temmink	ink Sphagnum farming in a eutrophic world: the importance of optimal nutrient stoichiometry		Svedarsky	Integrated management of invasive cattails as biofuel and as a wetland management strategy in the Northern Great Plains of the United States			
13:00	Lunch								
Session 1b: Case studies				Session 7: Legal and policy framework: incentives & constraints					
14:30	Paul	Goriup	Reed-based renewable energy development in the Danube and Dniester deltas of Ukraine, Moldova and Romania	Christian	Schröder	Implementing paludiculture - How we can avoid land-use conflicts?			
14:50	Vittoria	Giannini	What we have learnt from five years of paludiculture in a mediterranean peatland (Tuscany, IT)	Bernhard	Osterburg	Impacts of the EU common agricultural policy and the EU climate policy on the mitigation of greenhouse gas emissions from drained peat soils			
15:10	W. Daniel	Svedarsky	Sustainable watersheds to renewable energy: Typha harvesting for nutrient management, wetland restoration, and sustainable low carbon	Annette	Freibauer	Promoting paludiculture in the next common agriculture policy framework			
15:30	Anke	Nordt	How to apply best practise of wet peatland use for common practise ? Learning from existing approaches in Germany	Jan	Peters	Is Europe ready for paludiculture? Implications of the EU regulatory environment			
15:50	Coffee bre	ak		· 					
16:30	Discussion								
18:00	Summary o	of discussion a	nd final word						
20:00	Networkin	g evening							