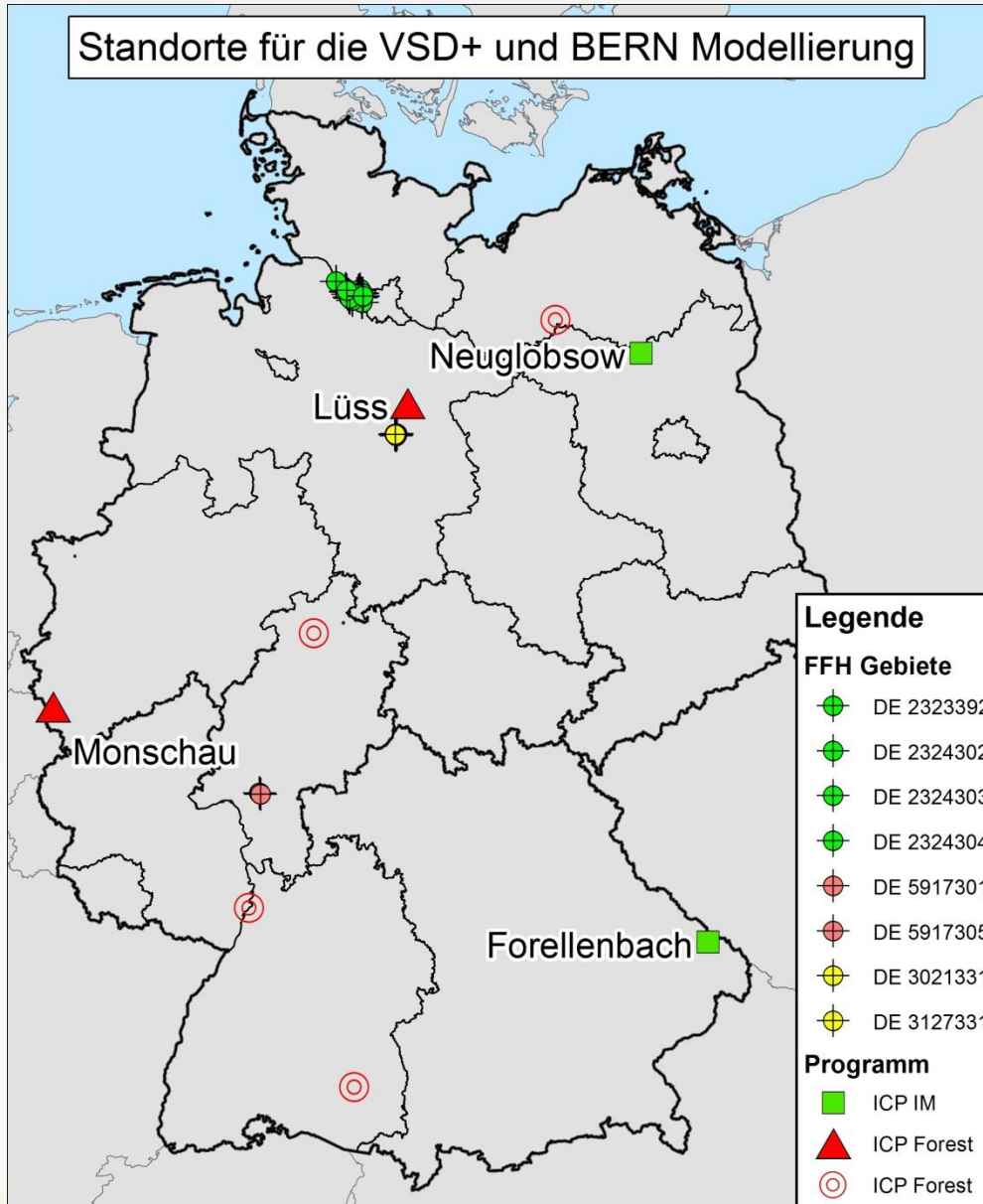




22th ICP IM Workshop Westport, 07.05.2014

Dynamic modelling on German ICP IM plots



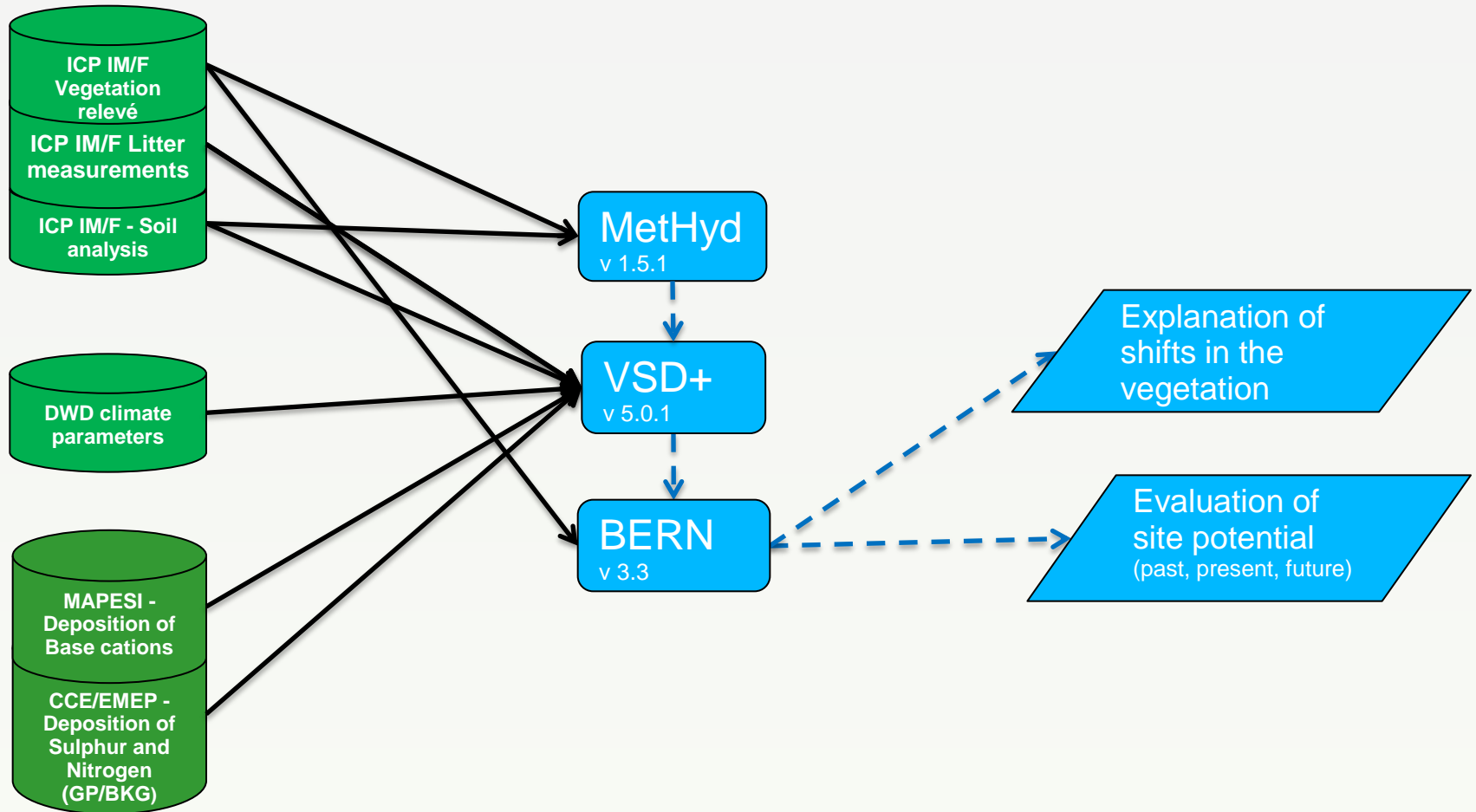




Data sources:

Methods/Models:

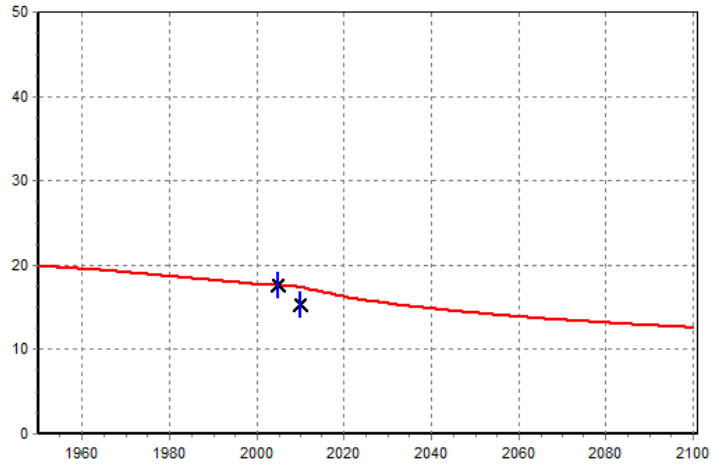
Results:



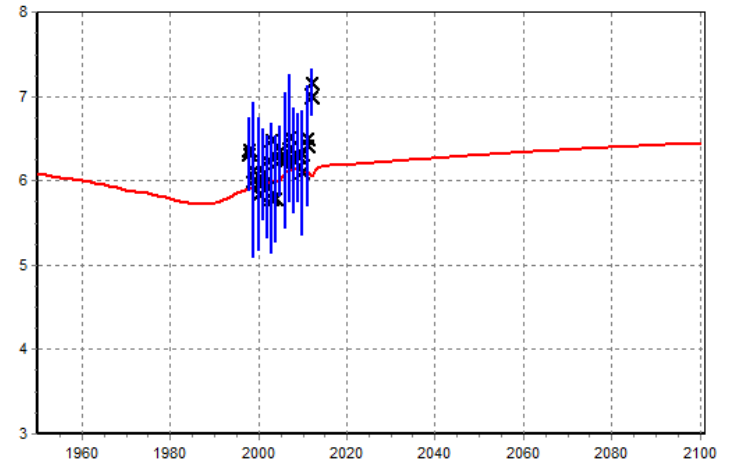


Neuglobsow

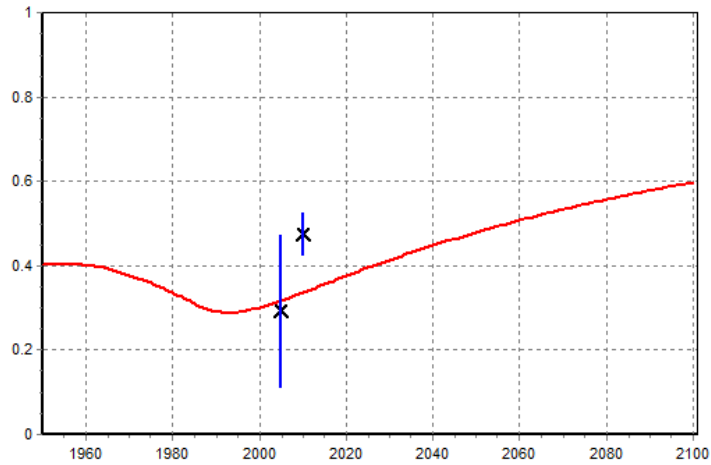
Average soil C:N (g/g)



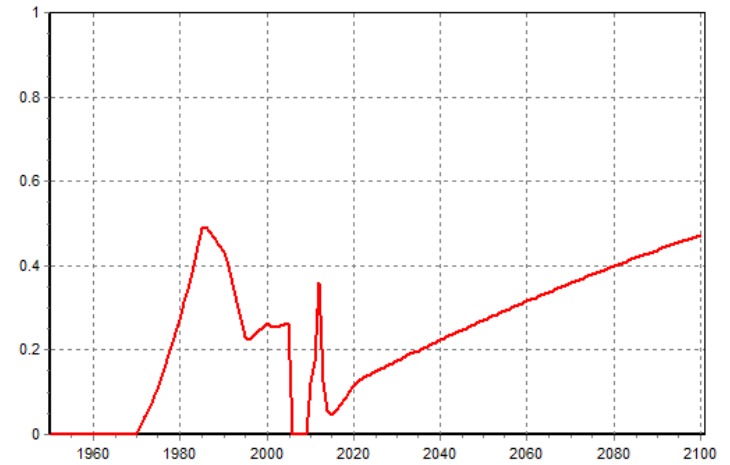
pH



EBc



[NO3-] (eq/m3)





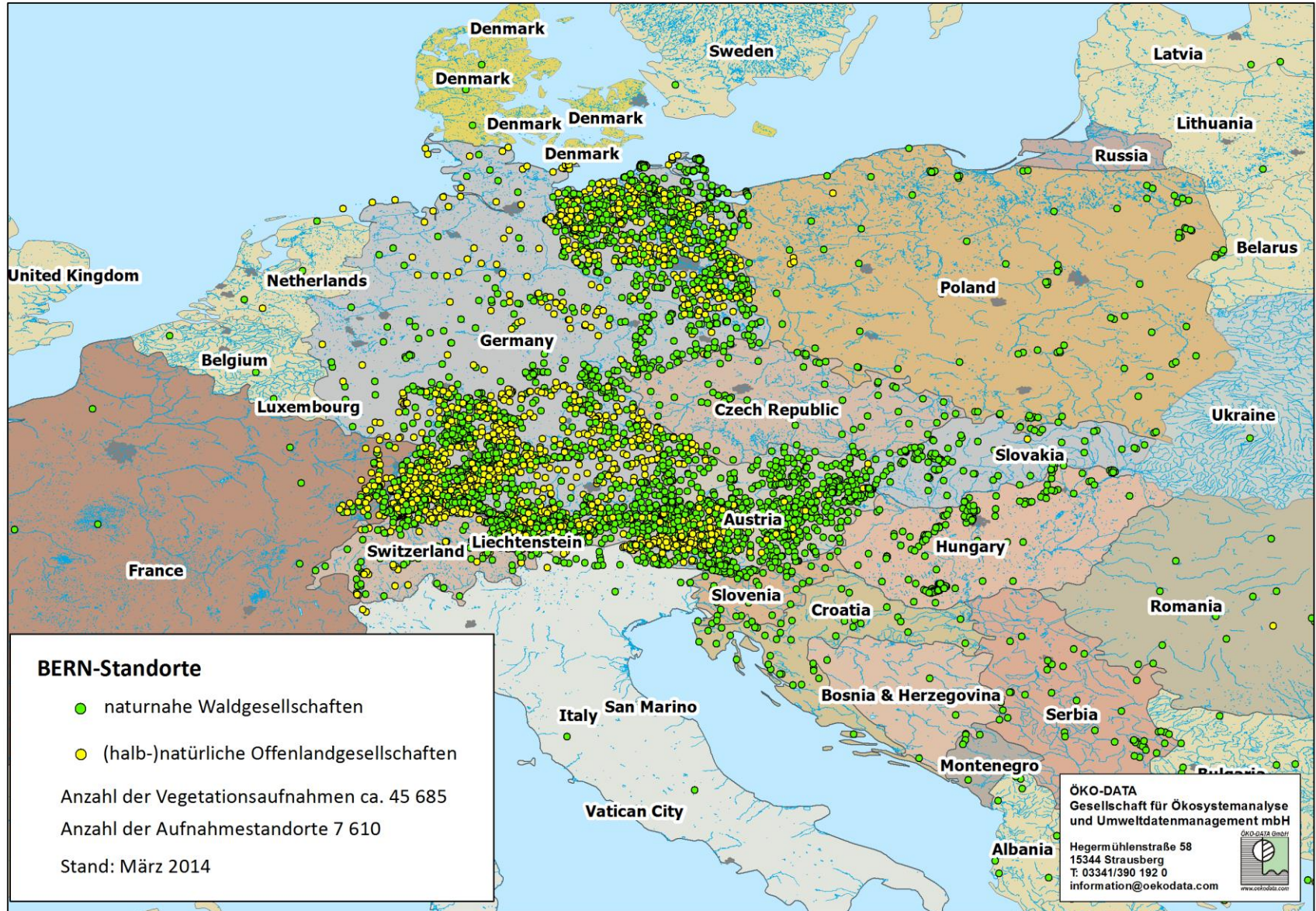
The **BERN** model:

Bioindication of

Ecosystems

Regeneration towards

Natural Conditions



BERN-Standorte

- naturnahe Waldgesellschaften
- (halb-)natürliche Offenlandgesellschaften

Anzahl der Vegetationsaufnahmen ca. 45 685
 Anzahl der Aufnahmestandorte 7 610
 Stand: März 2014

ÖKO-DATA
 Gesellschaft für Ökosystemanalyse
 und Umweltdatenmanagement mbH

Hegermühlenstraße 58
 15344 Strausberg
 T: 03341/390 192 0
 information@oekodata.com





BERN Model: Database

- 673 natural or semi-natural plant communities
- 1928 constant plant species of communities

Gesellschaft

ID: 2010 Naturnähe: natürlich Gefährdung: * = ungefährdet

Pruno-Fraxinetum excelsi OBERDORFER 1953

Erste Nutzungsart: Wald
Zweite Nutzungsart:
Dritte Nutzungsart:

Art

ID: 120

Name: Fraxinus excelsior

Parameter | Status of protection | Ellenberg values

	Optimum				[unit]
	Minimum			Maximum	
soil water content	0,070	0,26	0,36	0,550	[m³/m³]
base saturation	15	34,2	43,8	63	[%]
C/N-ratio	10	16	19	25	[]
climat. water balance	-39,5	139,6	229,2	408,3	[mm/veg.month]
vegetation period	100	165	205	220	[days>10°C/year]
solar radiation	341	518	607	784	[kWh/m² y]
temperature	-23,3	7,22	22,48	53	[°C]

change

No. of species: 18 charakter. höchstet Bedeckung:

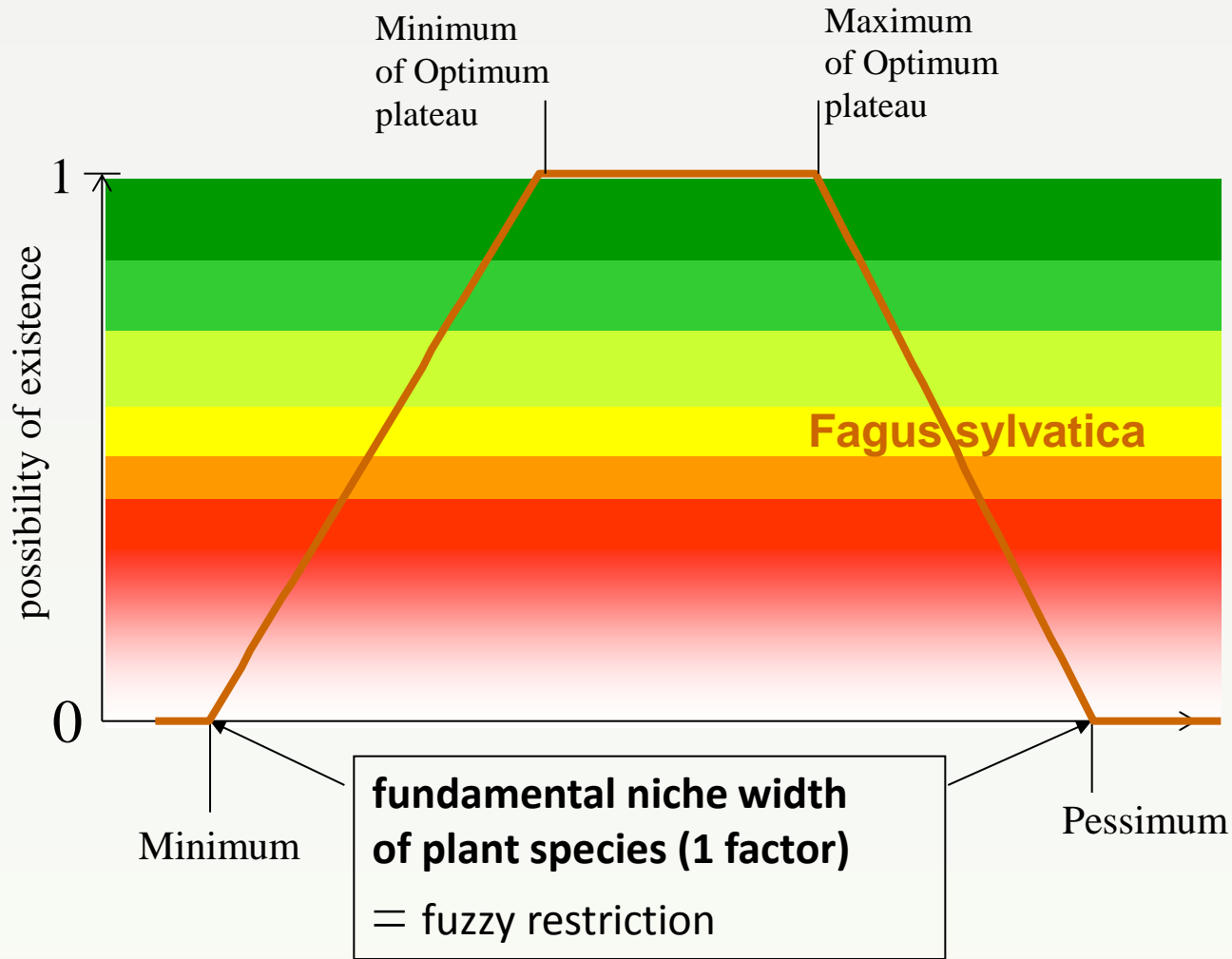
Urtica dioica	5	Details...
Carex acutiformis	15	Details...
Adoxa moschatellina	0,2	Details...
Festuca gigantea	1	Details...
Deschampsia cespitosa	15	Details...
Oxalis acetosella	1	Details...
Alnus glutinosa	35	Details...
Fraxinus excelsior	35	Details...
Ranunculus ficaria	15	Details...
Stellaria holostea	1	Details...
Lysimachia vulgaris	1	Details...
Humulus lupulus	5	Details...
Milium effusum	1	Details...
Prunus padus	40	Details...
Carex brizoides	1	Details...
Eurhynchium striatum	1	Details...
Scrophularia nodosa	1	Details...

Art suchen: Fraxinus excelsior

Datensatz: 120 von 1928 Ungefiltert Suchen

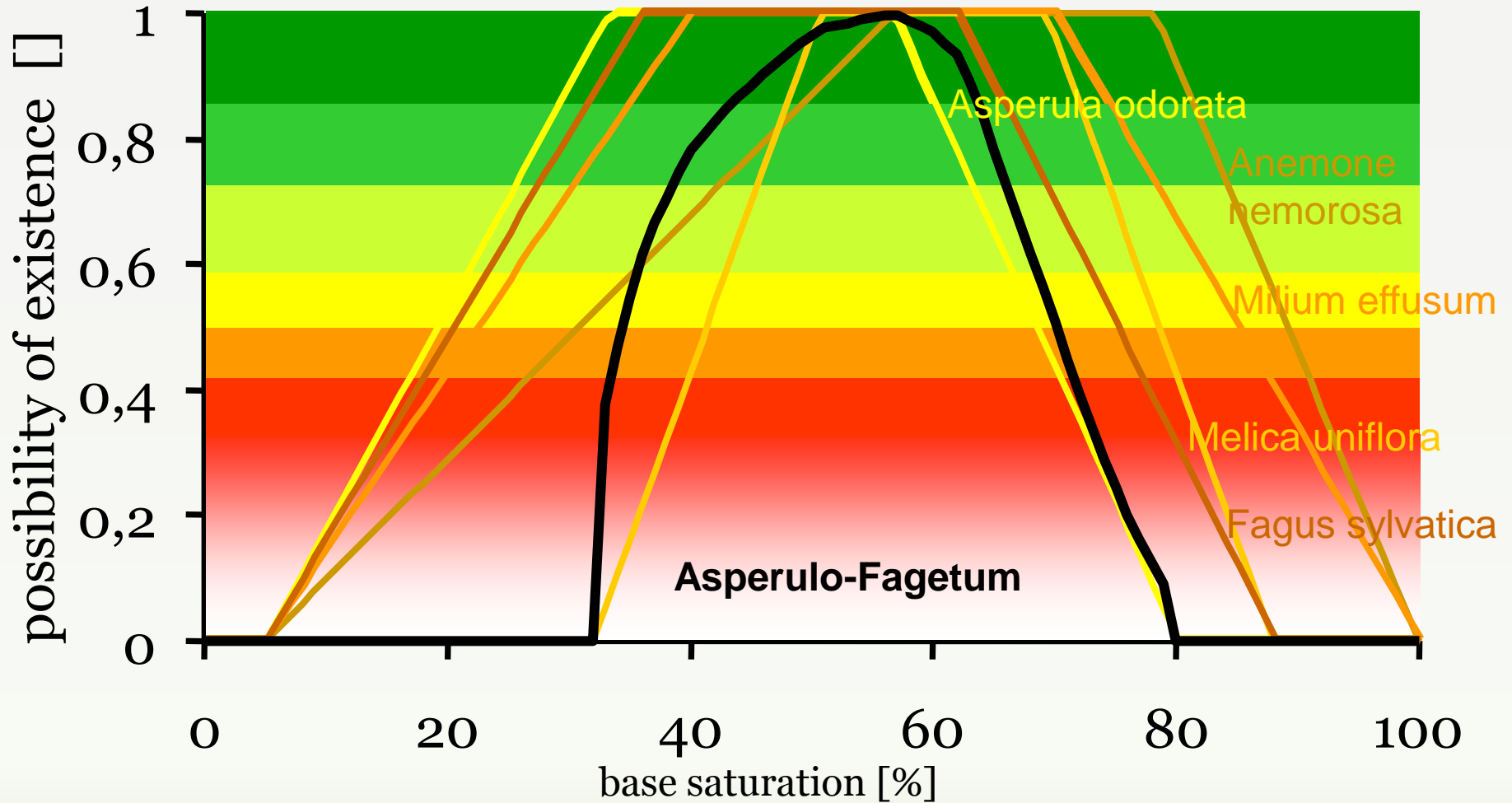


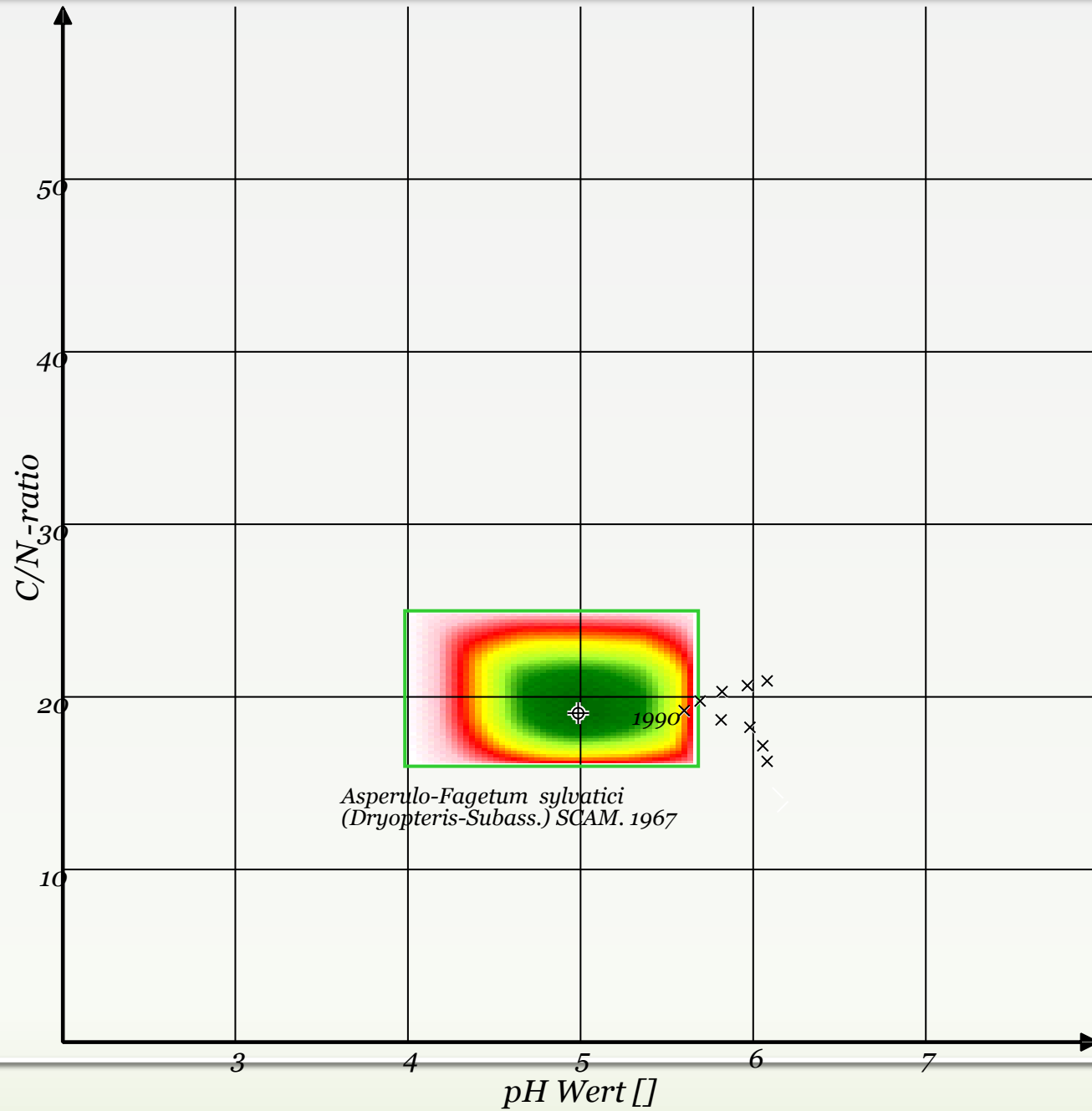
Possibility distribution function (PDF) (acc. ZADEH (1978))

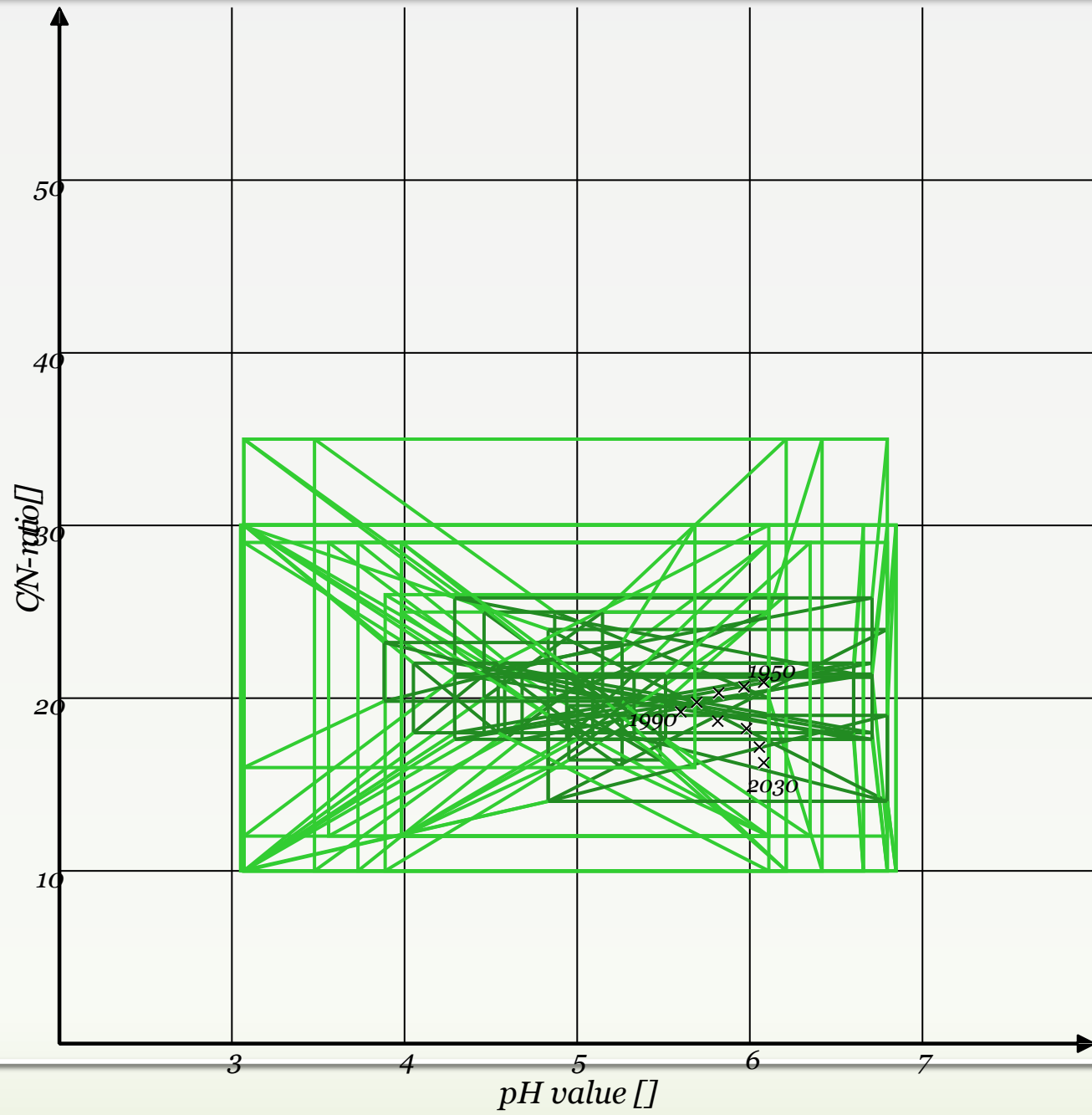


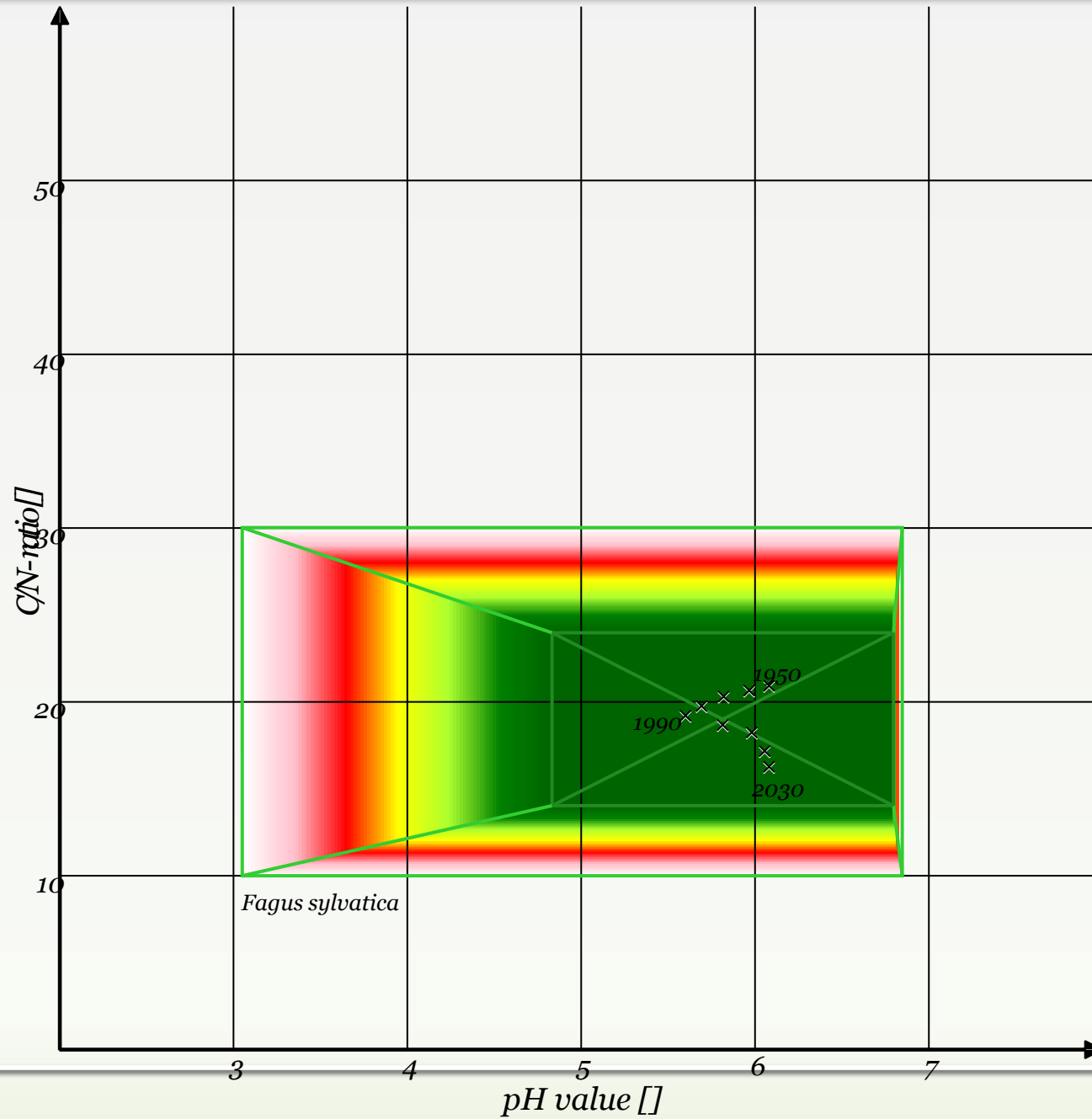


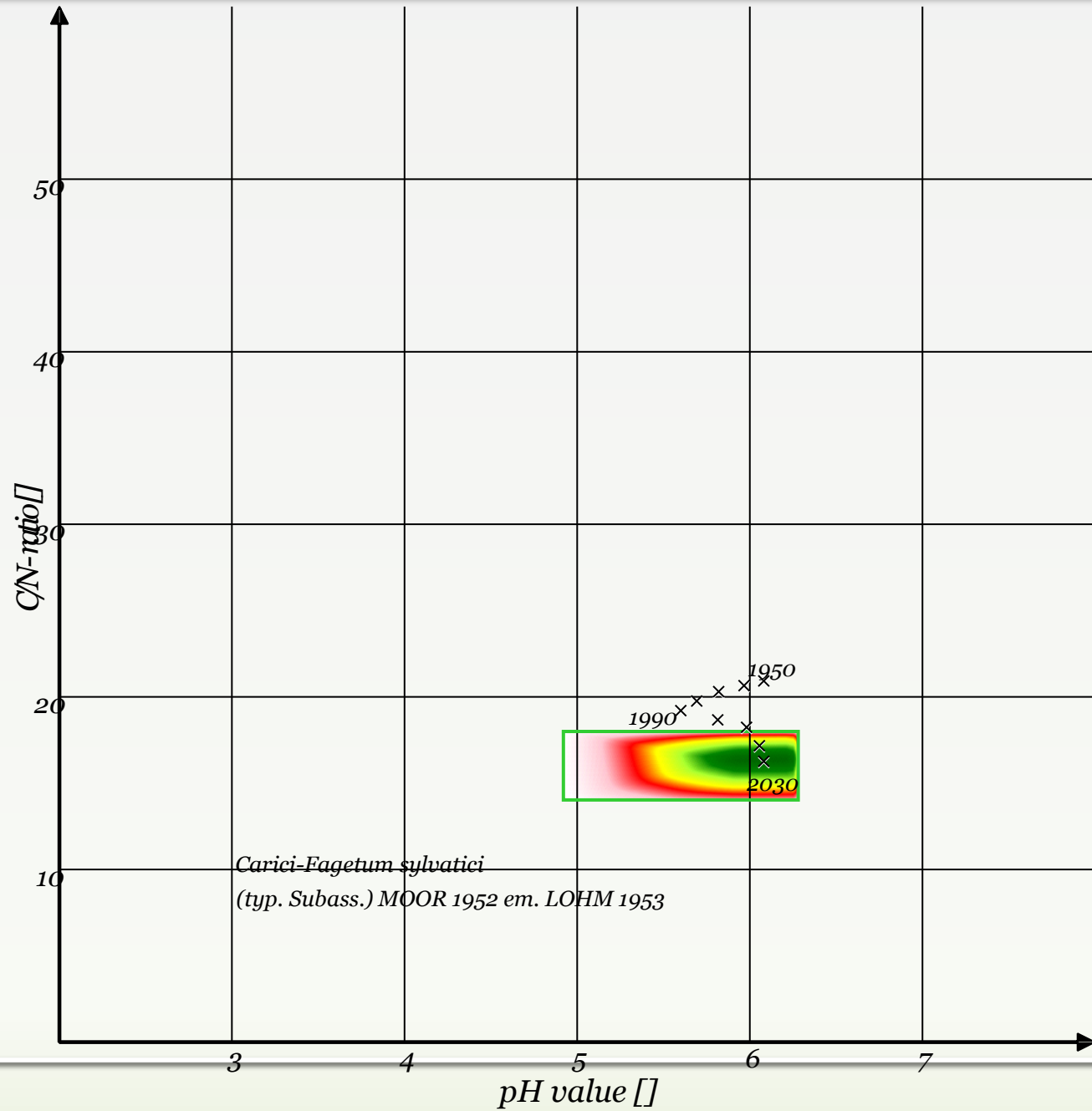
BERN Model: Possibility distribution function of constant species

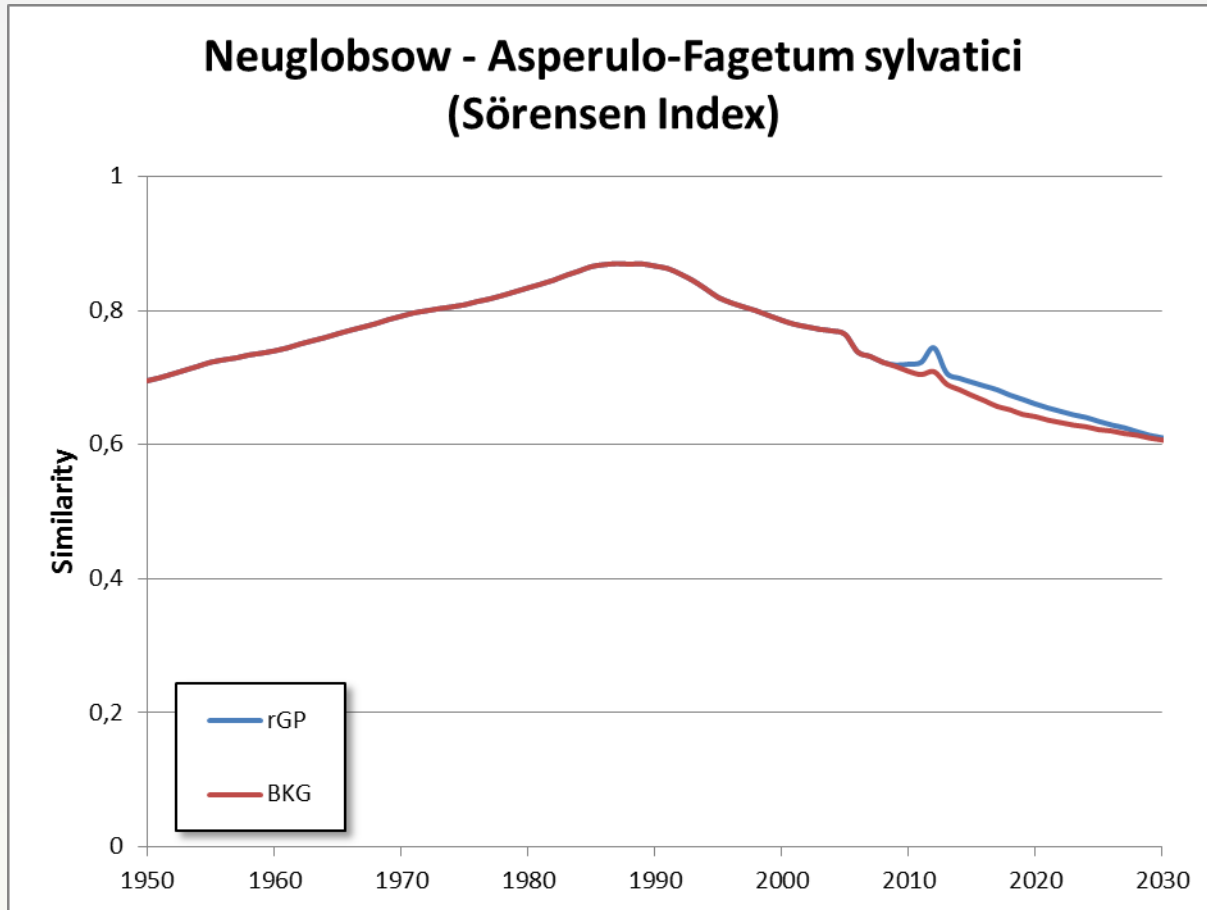


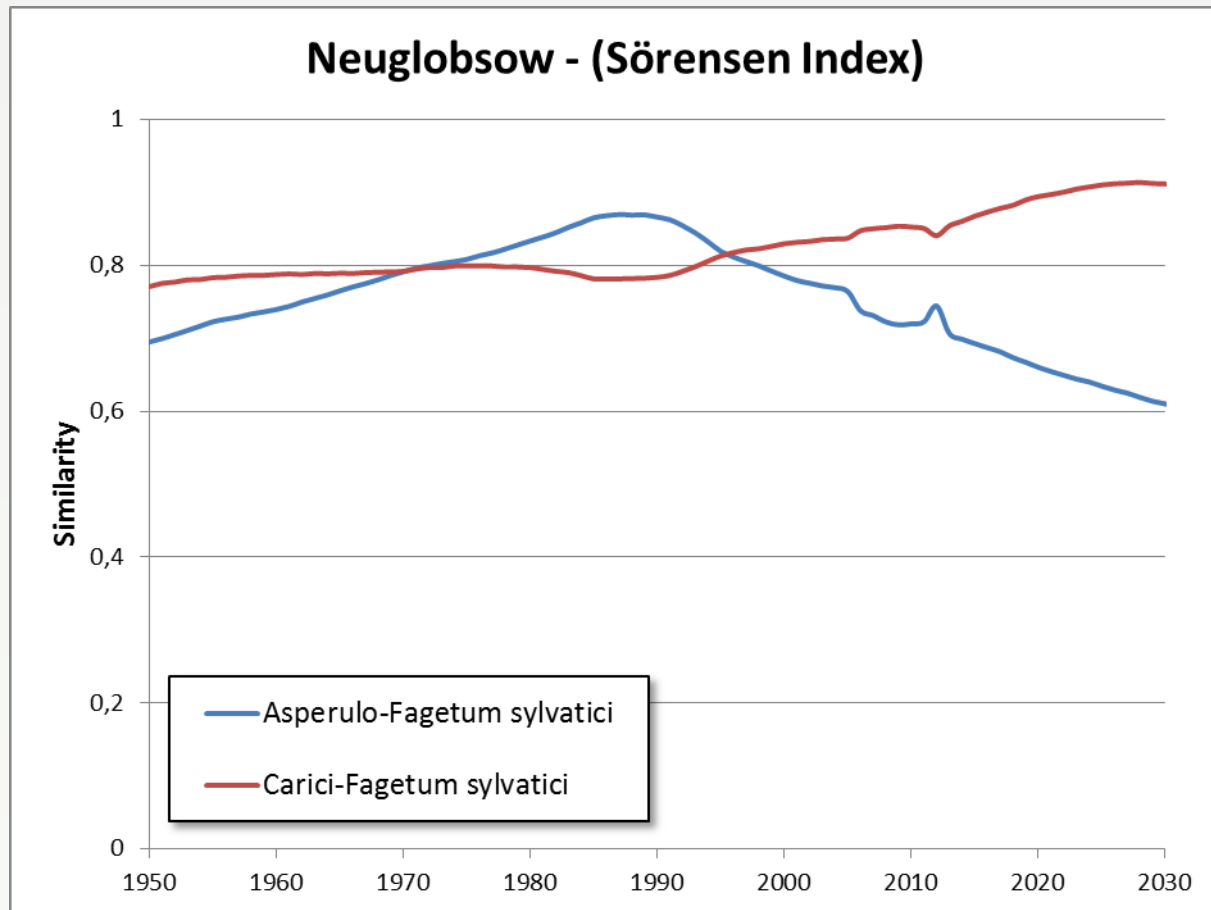














Lessons learned so far:





Outlook:

- Continue the work
- Extent to other sites (other networks)
- Formalize needed input data and models for such exercises

Many thanks to Burkhard Beudert and Hubert Schulte-Bisping!



Thank you for your attention

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or email to

thomas.scheuschner@oekodata.com



