

Proceedings 19. International Alpine Workshop – Upper and lower Lech valley 2.-8.07.2023

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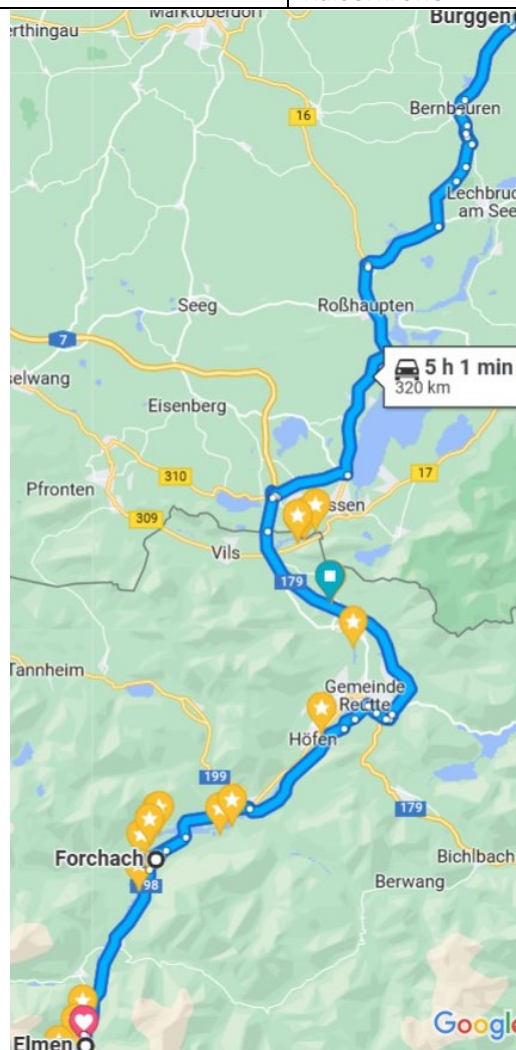
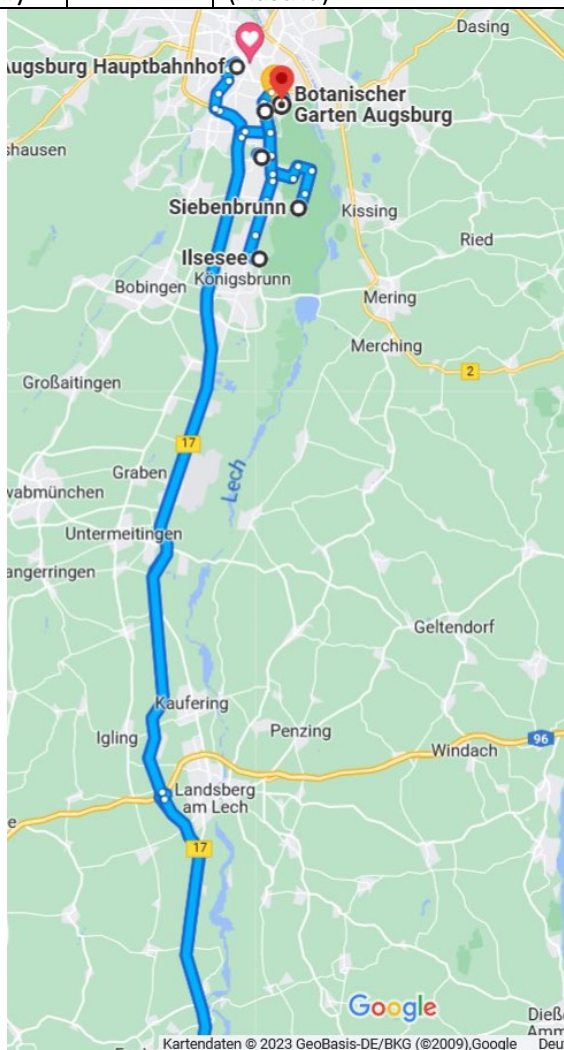
Temporary Participants: 1. Nature Park Tiroler Lech: Christina Kollnig, Lena Nicklas,
2. Nature Reserve Stadtwald Augsburg and BayLfU: Ines Langensiepen, Marcel Ruff, Eberhard Pfeuffer, Anette Vedder.

Main aim of the workshop was to visit different best practise projects of restoration ecology:

- River restoration and reintroduction of *Typha minima* in the Nature Park "Tiroler Lech" (Austria) www.naturpark-tiroler-lech.at
- Restoration of semidry grasslands in the Nature Reserve "Stadtwald Augsburg" (Germany). www.lpv-augsburg.de.

The semidry grasslands were target and source habitats for the establishment and design of species rich grassland types in the outdoor facilities of the Bavarian Environmental Agency (LfU). The most locations are documented by permanent plots since 20 – 30 years. Further the permanent plots of the research program "Lawns to species rich meadows" are visited in the Landscape Garden Siebentischwald, Augsburg.

2. July	Sunday	Trip by train: Erfurt- Augsburg, by Car Augsburg - Elmen (Austria)	Accommodation Kaiserkrone
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3. July	Monday	9.00 -17.00 Forchach: wild river landscape and restored riversites (LIFE project 2017 -2021) with <i>Typha minima</i> reintroduction compare Unterlercher & Weiländer 2022  Accommodation Kaiserkrone Elmen Forchach 2013NM <i>Typha minima</i> Stuiben Aue 2022	
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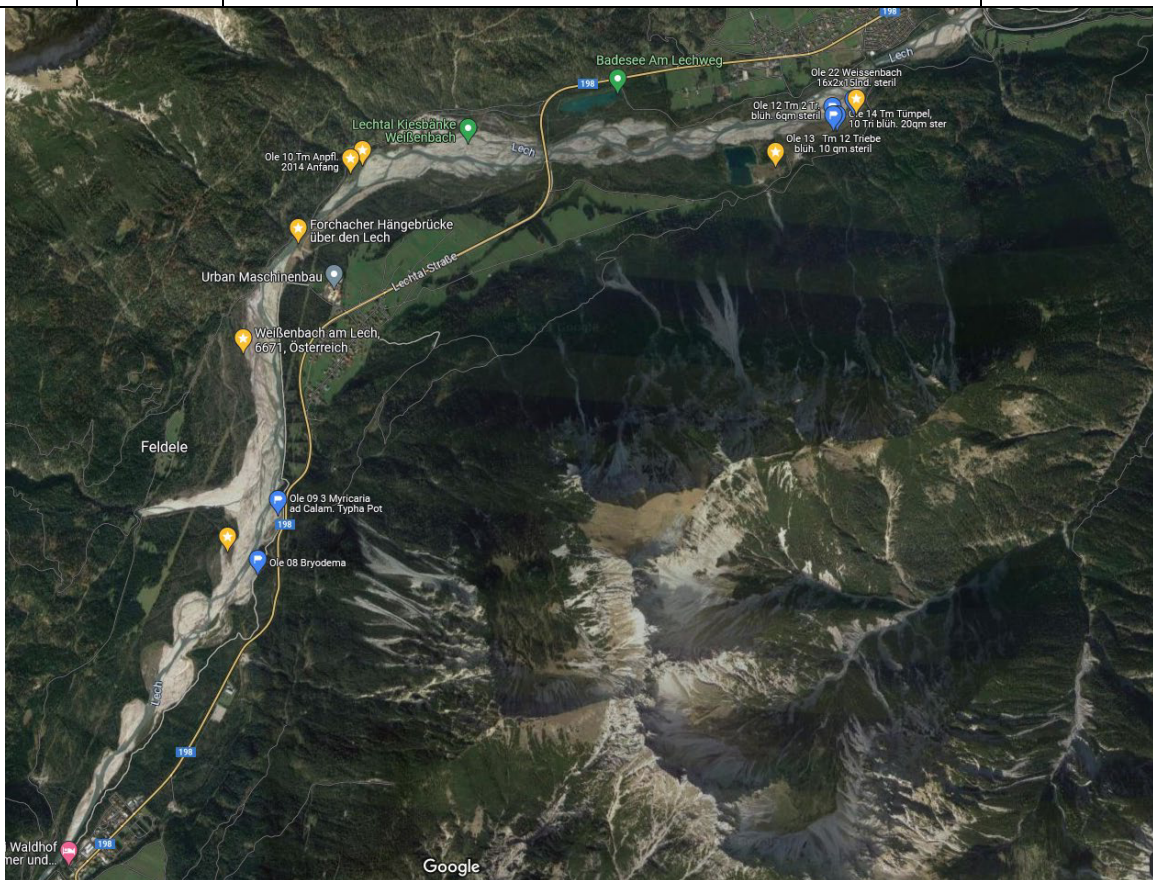




Abb. 37 und 38: *Typha minima* Bestand in der Stuibenuau am 23.06.2020

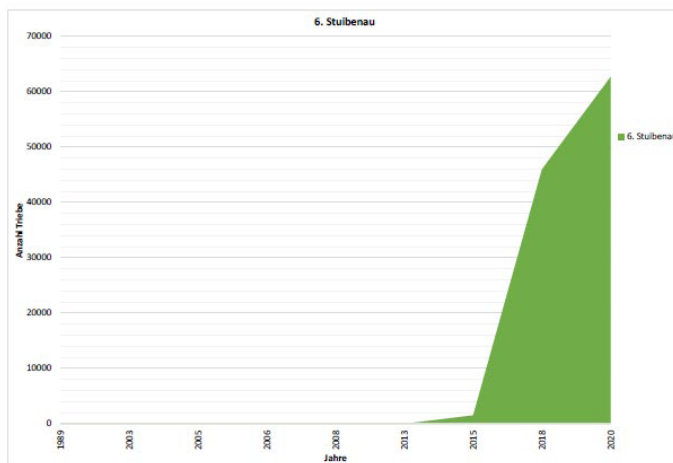


Abb. 39: Sprunghafte Zunahme der 2013 gepflanzten 100 Jungpflanzen in der Stuibenuau.

4. July	Tuesday	9.00 - 12.00 restored river sites near Weißbach with <i>Typha minima</i> reintroduction since 2004 compare Müller 2021 13.00- 18.00: Travel along the Lech to Augsburg – Passing by Castle “Neu Schwanstein” and Fergensee (hydroelectric powerplant). Visiting Litzauer Schleife – the last unregulated river section of the Lech river outside the Alps.	B&B Hotel Augsburg
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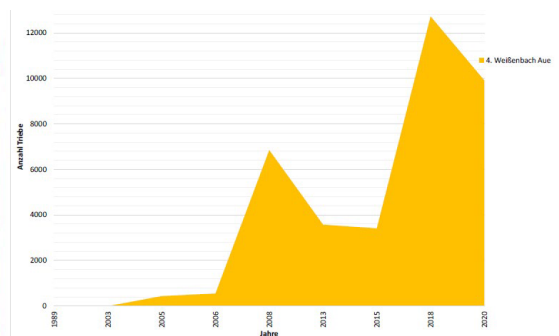


Abb. 31: Entwicklung des Zwergrohrkolbens in der Weißbach Aue

Weißbach Aue mit Anpflanzungen

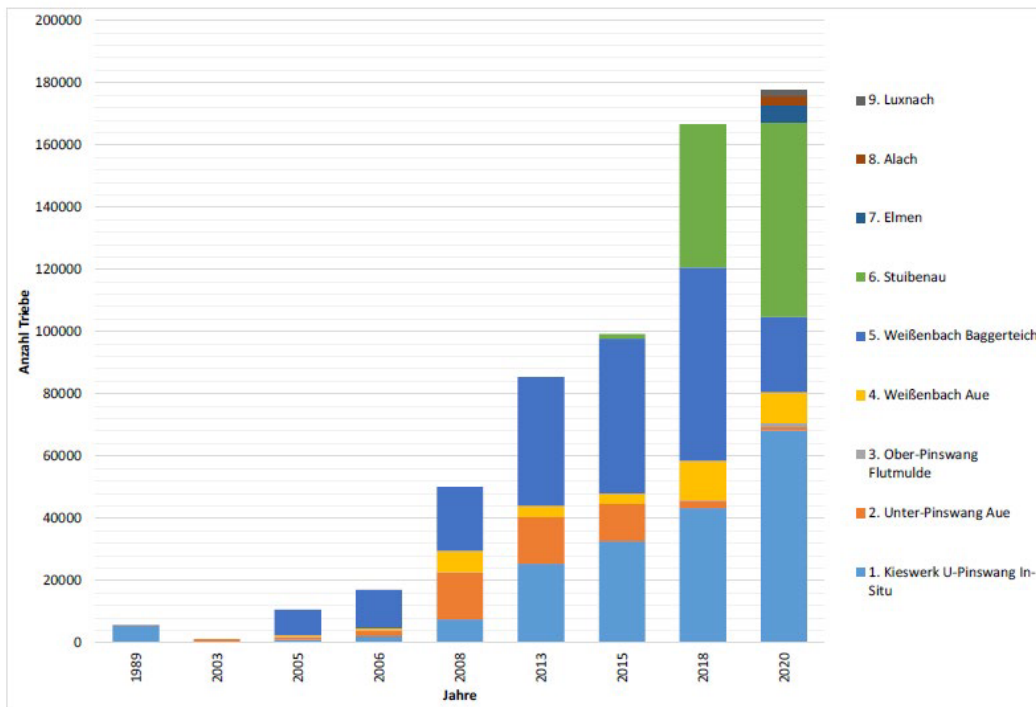
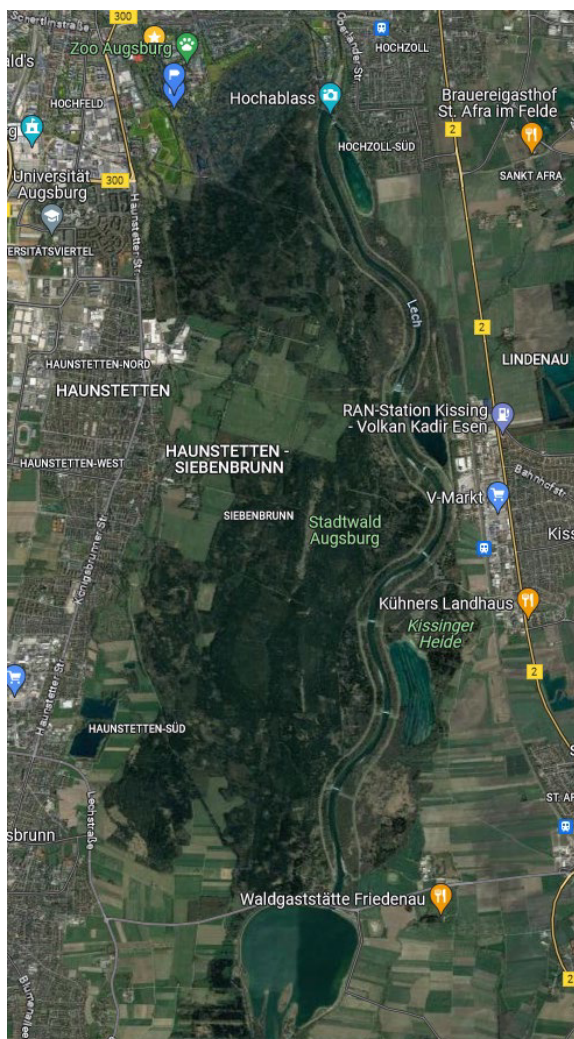


Abb. 42 Entwicklung der Lechtaler Zwergrohrkolbenpopulation seit 1989



Nature Reserve Stadtwald Augsburg (Germany)

5. July	Wednesd ay	Nature Reserve Stadtwald Augsburg  9.00 -11.00 Siebenbrunn: 1910 regulated river with degraded floodplains - Siebenbrunner Quellflur 11.00 -13.00 Schießplatz Haide – Nature reserve – central area Investigating permanent plots of grassland restoration Foto 1992, 2013   14.00 – 17.00: Königsbrunner Haide Semidry and restored grasslands on fossil floodplains, permanent plots compare Müller 2002	B&B Hotel Augsburg 1.Wehr 2016 NM
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7. July 335 km	Friday	13.00 Botanical Garden Augsburg (Transplanted semi-dry grasslands) Investigating permanent plots (Müller 2002)   	B&B Hotel Augsburg Botanical Garden translocated grasslands- 1982, 2009, 2018
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Literature:

Kopp B 2010: Exkursion Außenanlagen des LfU Augsburg. BayLfU: Natur in der Stadt: Tagungsband: 46-53

Müller, N & Schmidt, K.R., 1982: Stadt Augsburg - Blumenwiesen, Entwicklung von artenreichen und biologisch aktiven Grünflächen - Pflegeprogramm Siebentischpark. Das Gartenamt 31: 23-30

Müller, N. 2002: Auswertung der Langzeituntersuchungen von Dauerflächen im Augsburger Stadtgebiet zur Renaturierung von Lechhaiden. – Bericht Bay. Landesamt für Umweltschutz (Hrsg.), Augsburg 97 S.

Müller N. 2022: Der Zwergrohrkolben (*Typha minima* Funck ex Hoppe) am Tiroler Lech (Österreich) - Artenhilfsmaßnahmen und Populationsentwicklung seit 1988. – Zum Druck eingereicht in "Natur in Tirol".

Unterlercher M. & Weiländer M. 2022: Das LIFE - Projekt "Dynamic River System Lech". Auenmagazin 22: 4-9