

C stocks and gains of afforested areas: first results based on Swiss NFI data

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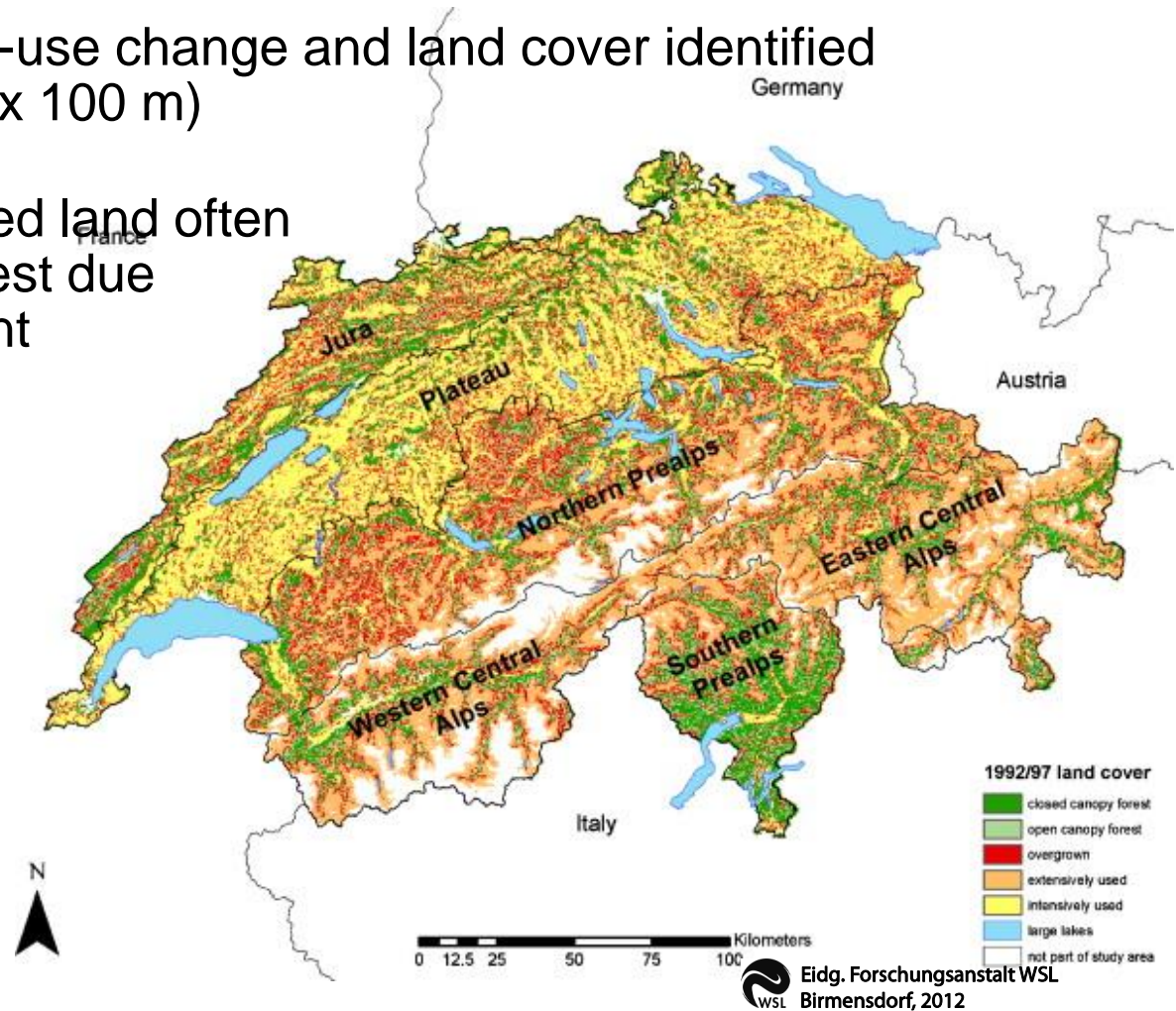
Areas converted to forest – KP 3.3

KP Afforestation: area has not been forest before and is converted to forest land by a direct human-induced activity

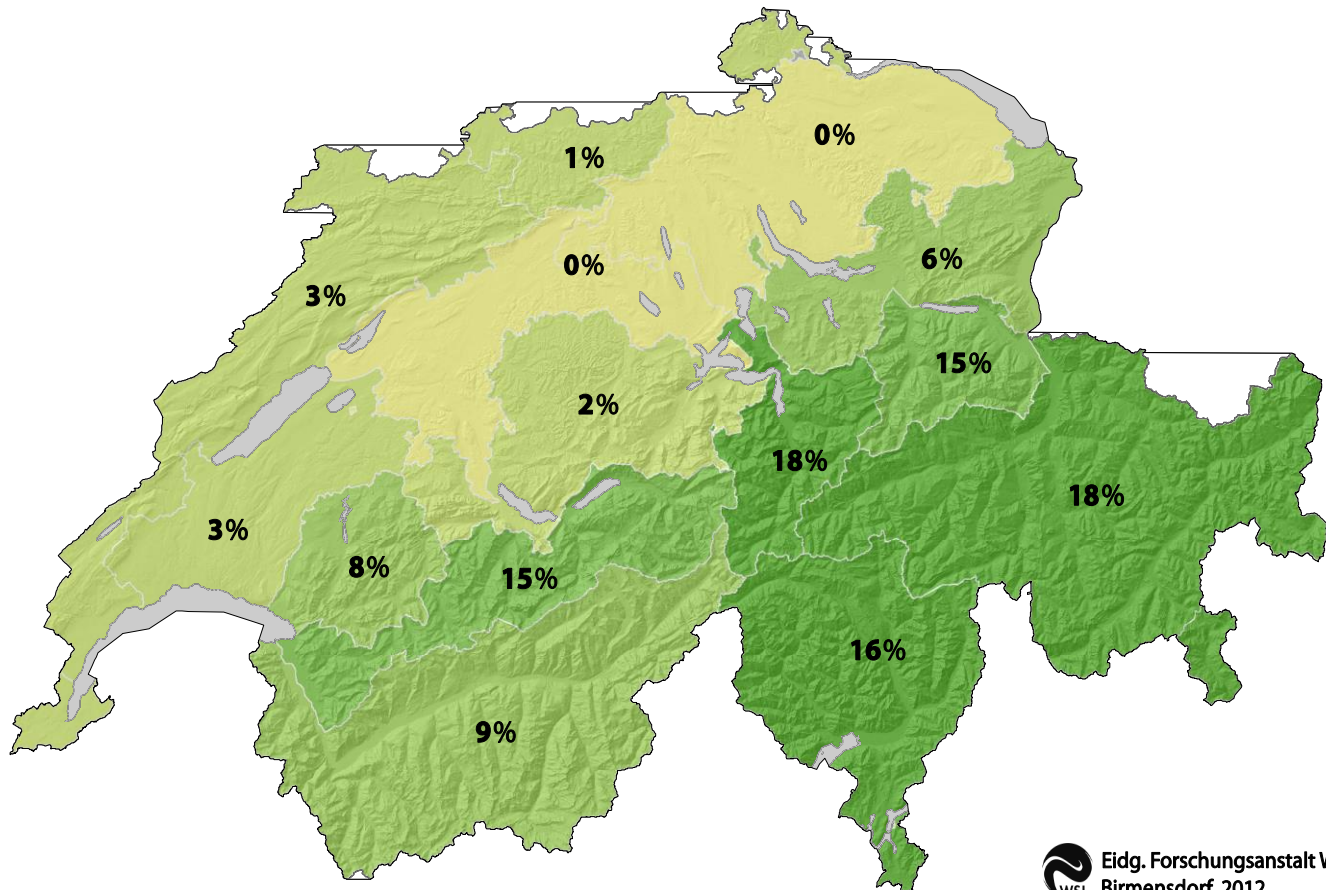


Areas converted to forest

- Land-use, land-use change and land cover identified by AREA (100 x 100 m)
- Extensively used land often converts to forest due to abandonment of agriculture

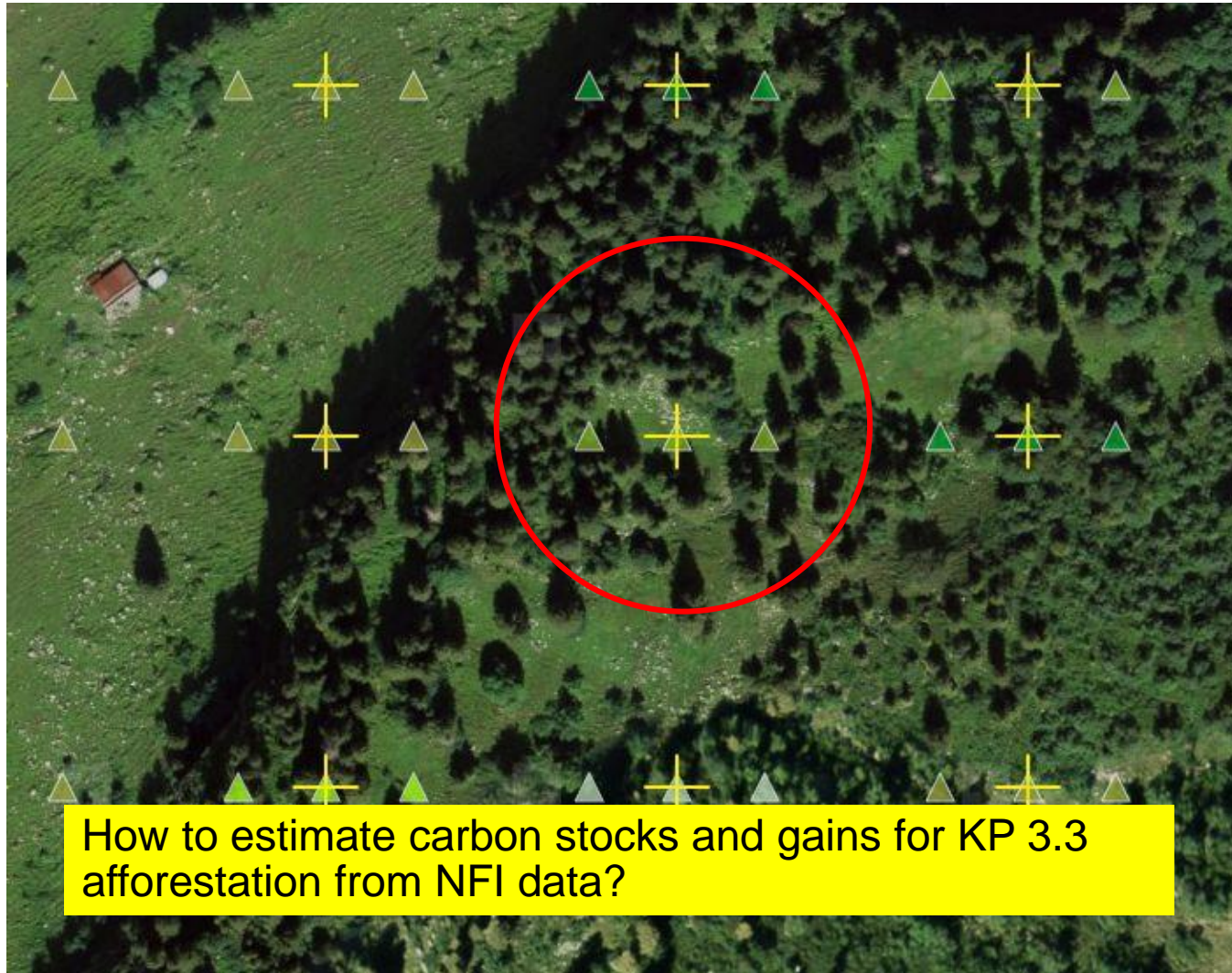


Areas converted to forest - increase of forest area



Eidg. Forschungsanstalt WSL
Birmensdorf, 2012

Areas converted to forest – no direct human influence



How to estimate carbon stocks and gains for KP 3.3 afforestation from NFI data?

C stocks and gains of afforested areas

- NFI does not directly allow identification of KP afforestations
- Natural conversion to FL: large diversity in dbh distribution
- KP afforestation (plantation): many trees with small dbh
- KP afforestation approximated by “young NFI forests”
 - plots converted from non-forest to forest
 - Re-measured at least once
 - at least 85% of trees with a dbh of maximum 20 cm
- Comparison of results with international values

C stocks and gains of afforested areas

Country / ref	Description	Stratification	C stock (t C ha ⁻¹)	Gains (t C ha ⁻¹ a ⁻¹)
Swiss NIR 2016 (Traub und Thürig 2015)	NFI data	<1201 m a.s.l.	10 ± 2	2.4 ± 0.5
		>1200 m a.s.l.	7.5 ± 1.5	1.4 ± 0.3

Thank you

Arealstatistik der Schweiz x Karten der Schweiz - Schweiz x

https://map.geo.admin.ch/?X=188008.37&Y=672435.31&zoom=2&lang=de&topic=ech&bgLayer=ch.swisstopo.swissimage&catalogNodes=457,477&layers=ch.bfs.arenalstatistik-1985,ch.bfs.arenalstatistik-1997

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