

Makrophytenkartierung Hallstätter See 2019

Kartenband

Auftraggeber:



LAND
OBERÖSTERREICH

und



Bundesministerium
Landwirtschaft, Regionen
und Tourismus

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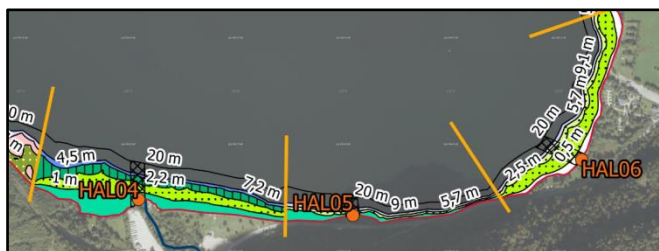
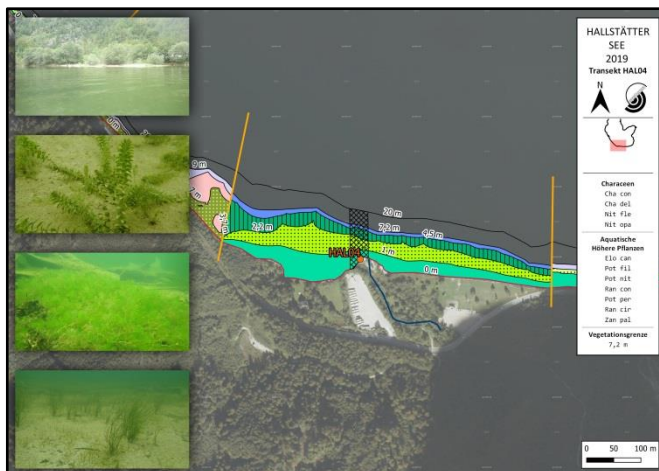
Sara Moritsch MSc

Kartierungszeitraum:

August 2019

Abgabedatum:

Dezember 2020



Ansprechpartner Land Oberösterreich:

Dr. Hubert Blatterer

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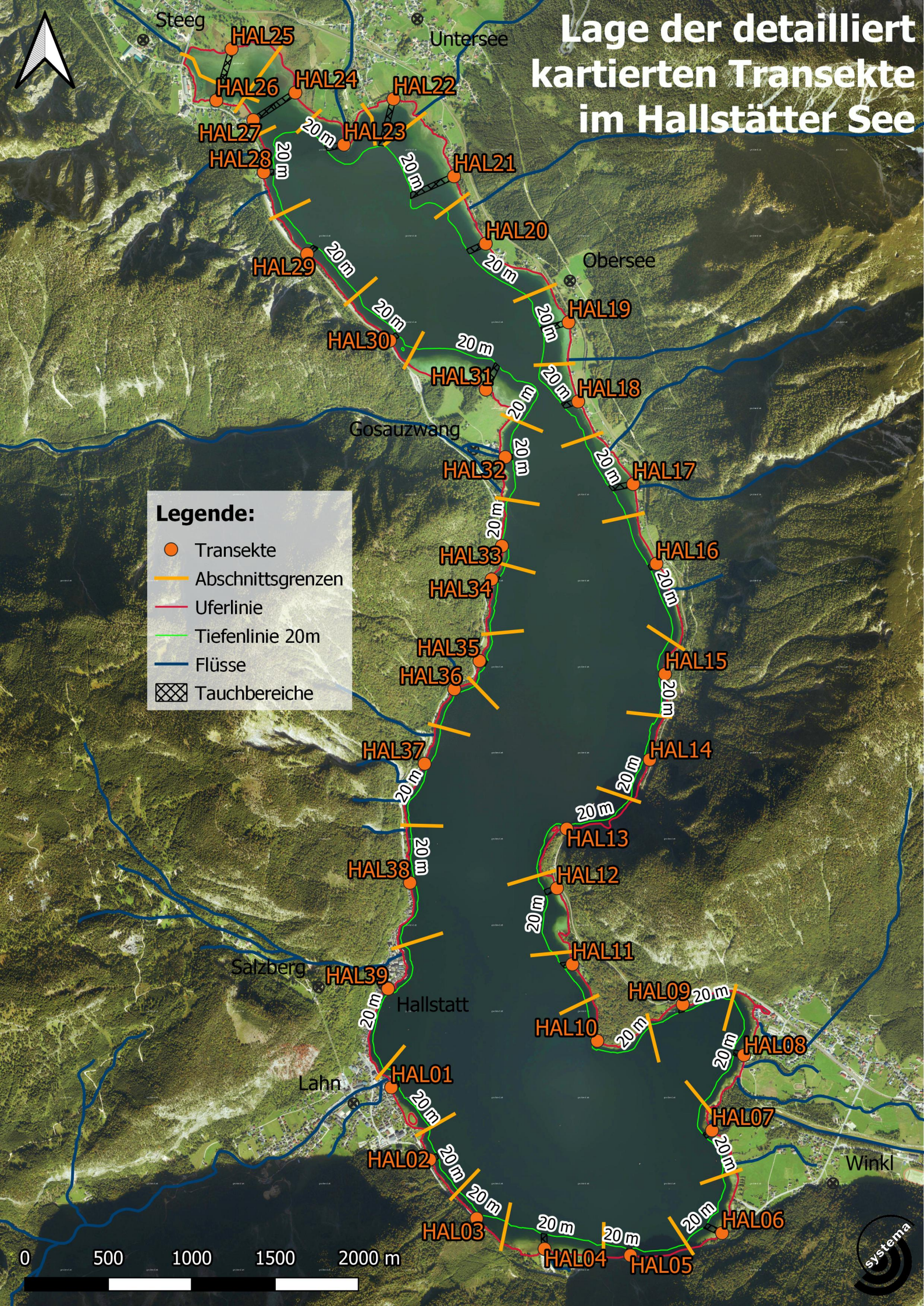
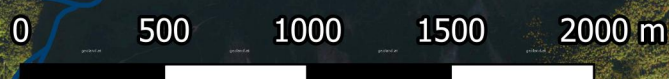


Lage der detailliert kartierten Transekte im Hallstätter See



Legende:

- Transekte
- Abschnittsgrenzen
- Uferlinie
- Tiefenlinie 20m
- Flüsse
- ⊗ Tauchbereiche



Legende

-  Transekte
-  Uferlinie
-  Abschnittsgrenzen
-  Flüsse
-  Tauchbereiche
-  kein Makrophytenbewuchs
-  Characeen, keine ausgeprägte Zonenpräferenz, schütter
-  Characeen, keine ausgeprägte Zonenpräferenz, dicht
-  Characeen des Flachwassers, Strandlingsflur, Zwergbinsen, schütter
-  Characeen des Flachwassers, Strandlingsflur, Zwergbinsen, dicht
-  Characeen des mittleren Tiefenbereiches, schütter
-  Characeen des mittleren Tiefenbereiches, dicht
-  Characeenwiesen der Tiefe, schütter
-  Characeenwiesen der Tiefe, dicht
-  Nitellafluren, schütter
-  Nitellafluren, dicht
-  Höhere Pflanzen, niederwüchsig, schütter
-  Höhere Pflanzen, niederwüchsig, dicht
-  Zone hochwüchsiger Arten (Laichkrautgürtel), schütter
-  Zone hochwüchsiger Arten (Laichkrautgürtel), dicht
-  Moose, schütter
-  Moose, dicht
-  ... mit niederwüchsigen Höheren Pflanzen
-  ... mit hochwüchsigen Arten des Laichkrautgürtels
-  ... mit Moosen
-  ... mit Characeen

- Röhricht**
-  Schilf, schütter
-  Schilf, dicht
-  Binsen, schütter
-  Binsen, dicht
-  Schilf+Binsen, schütter
-  Schilf+Binsen, dicht
-  Sonstige, schütter
-  Sonstige, dicht
-  Schilf+Sonstige, schütter
-  Schilf+Sonstige, dicht
-  Schwimmblätter, schütter
-  Schwimmblätter, dicht

Verwendete Kürzel der vorgefundenen Makrophyten:

Characeen:

Cha asp	Chara aspera
Cha con	Chara contraria
Cha cvh	Chara contraria var. hispidula
Cha del	Chara delicatula
Cha glo	Chara globularis
Cha his	Chara hispida
Cha pol	Chara polyacantha
Cha rud	Chara rudis
Cha str	Chara strigosa
Nit fle	Nitella flexilis
Nit opa	Nitella opaca
Nit syn	Nitella syncarpa
Tol glo	Tolypella glomerata

Röhricht:

Car sp.	Carex sp.
Des ces	Deschampsia cespitosa
Lyc eur	Lycopus europaeus
Lyt sal	Lythrum salicaria
Pha aru	Phalaris arundinacea
Phr aus	Phragmites australis
Sch lac	Schoenoplectus lacustris
Ver bec	Veronica beccabunga

Aquatische Höhere Pflanzen:

Elo can	Elodea canadensis
Elo nut	Elodea nuttallii
Myr spi	Myriophyllum spicatum
Nas off	Nasturtium officinale (s. str.)
Pot ber	Potamogeton berchtoldii
Pot fil	Potamogeton filiformis
Pot luc	Potamogeton lucens
Pot nit	Potamogeton x nitens
Pot pec	Potamogeton pectinatus
Pot per	Potamogeton perfoliatus
Pot pus	Potamogeton pusillus s. str.
Pot spa	Potamogeton sparganiifolius
Ran cir	Ranunculus circinatus
Ran con	Ranunculus confervoides
Ran tri	Ranunculus trichophyllus s. str.
Zan pal	Zannichellia palustris

Moose:

Cae cus	Calliergonella cuspidata
Fon ant	Fontinalis antipyretica

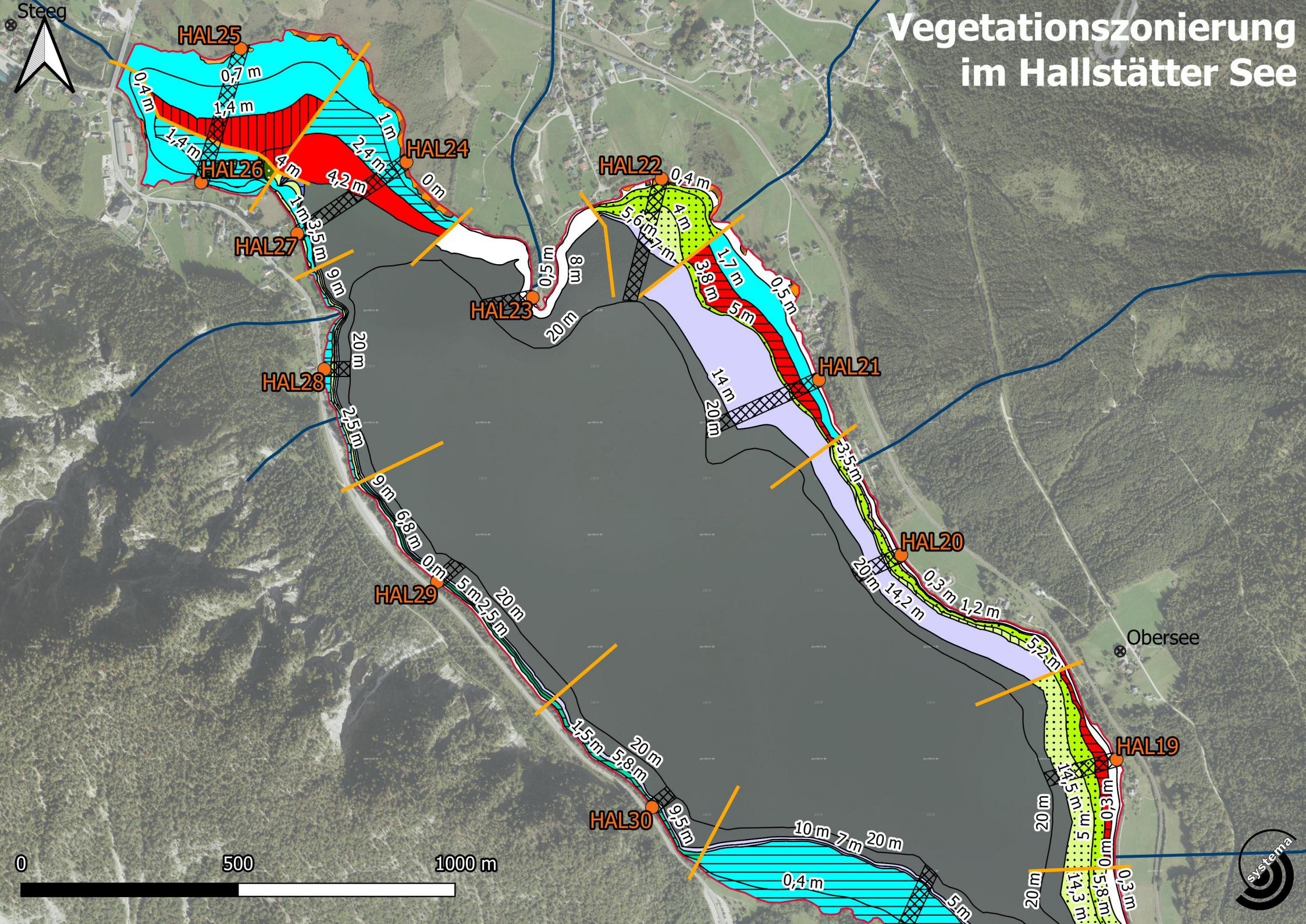
Anmerkungen: Die in den Kästen am rechten Rand der Karten jeweils aufgelisteten Taxa umfassen ausschließlich jene Arten die im Zuge der Makrophytenkartierung innerhalb des entsprechenden Transekts vorgefunden wurden.

Die graphische Darstellung eines Abschnitts erfolgt nach den jeweiligen Kartierungsergebnissen des für diesen repräsentativen Transekts.

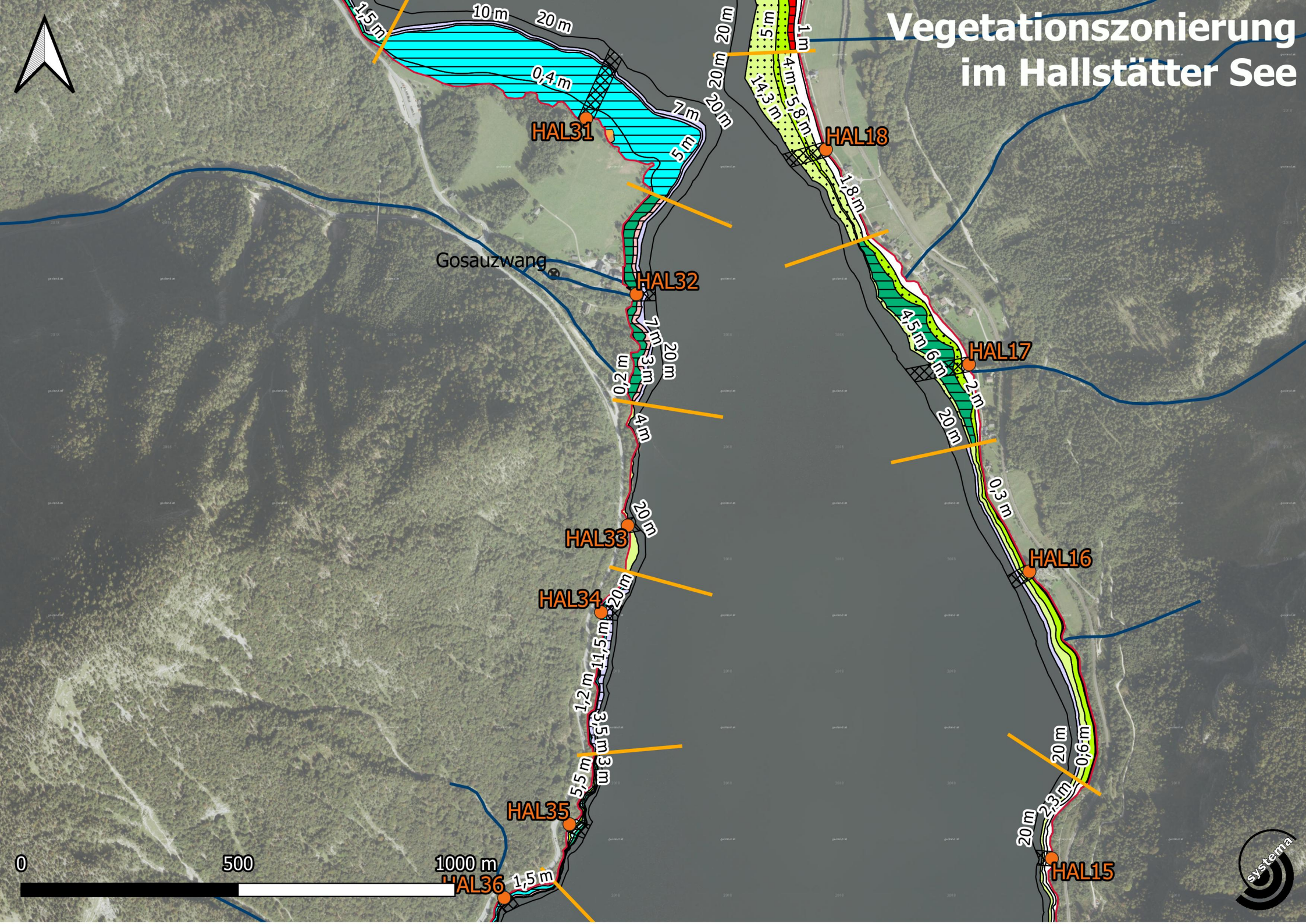
Vegetationszonierung im Hallstätter See



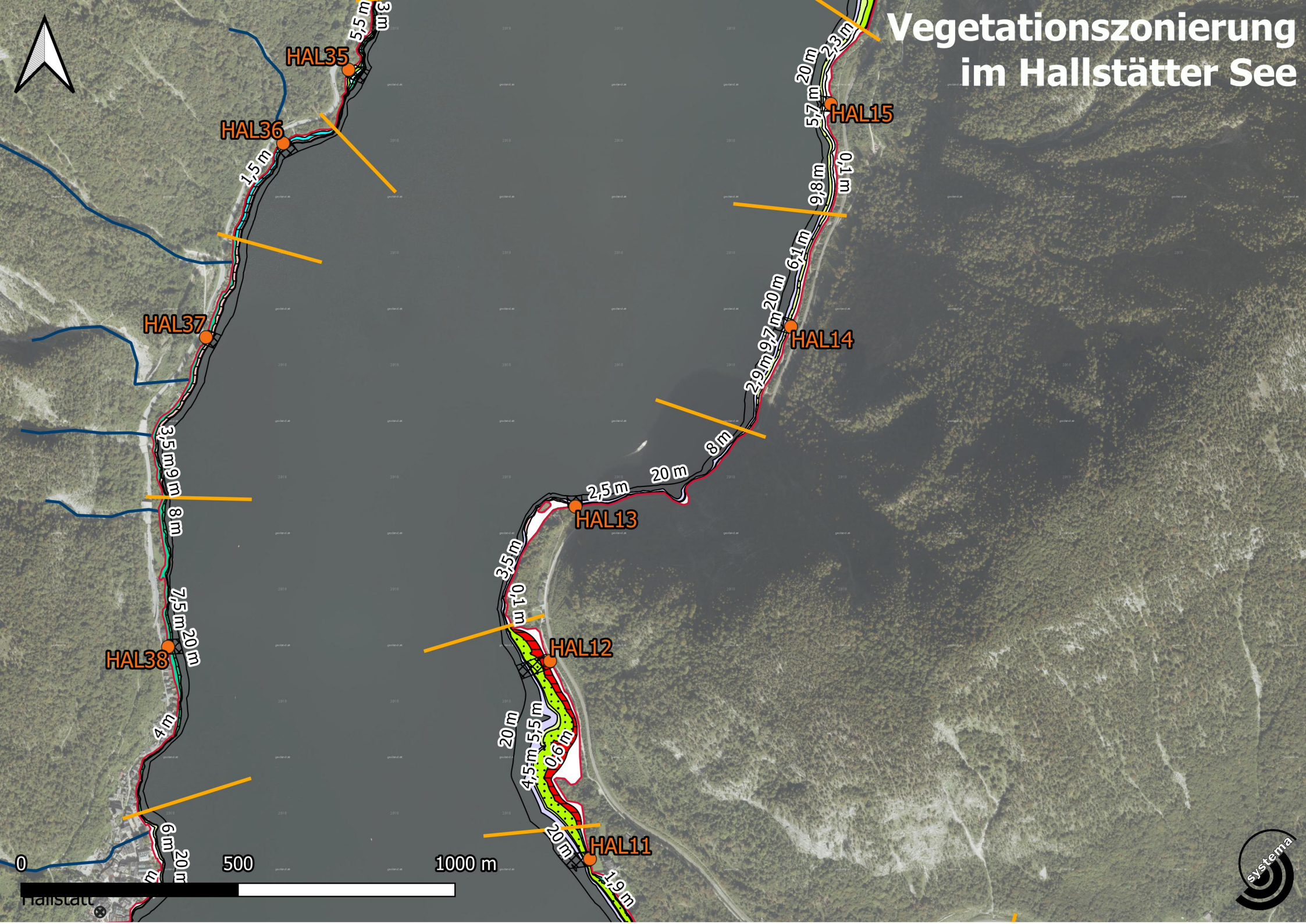
Vegetationszonierung im Hallstätter See



Vegetationszonierung im Hallstätter See



Vegetationszonierung im Hallstätter See



Hallstatt



Vegetationszonierung im Hallstätter See

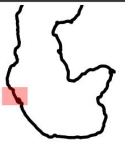


Salzberg Hallstatt

Lahn



HALLSTÄTTER
SEE
2019
Transekt HAL01

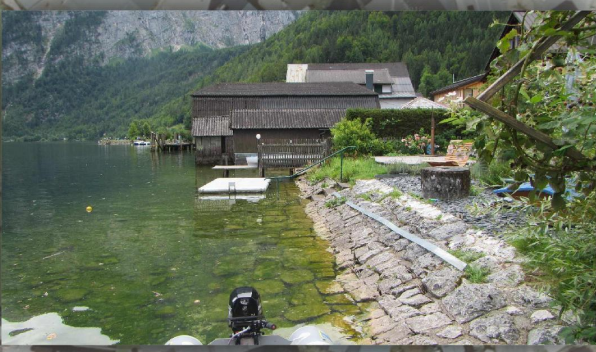


Characeen
Cha asp
Cha del
Cha str

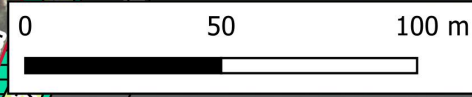
**Aquatische
Höhere Pflanzen**
Elo can
Ran tri

Moose
Fon ant

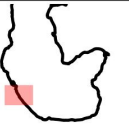
Vegetationsgrenze
8 m



Lahn
Lahn



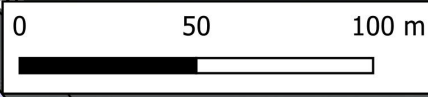
HALLSTÄTTER
SEE
2019
Transekt HAL02



Characeen
Cha del

Aquatische
Höhere Pflanzen
Elo can
Ran tri

Vegetationsgrenze
8,5 m



HALLSTÄTTER
SEE
2019
Transekt HAL03



Characeen

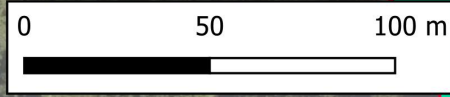
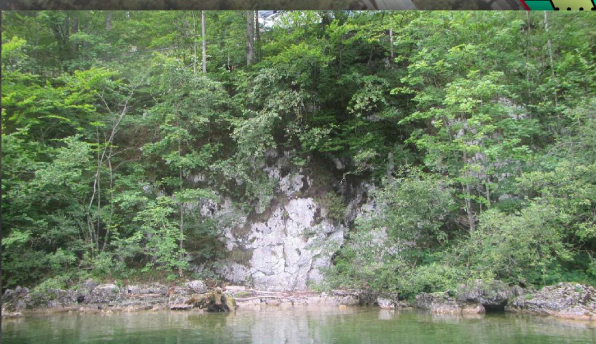
- Cha asp
- Cha con
- Cha del
- Cha glo

**Aquatische
Höhere Pflanzen**

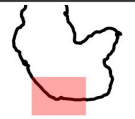
- Elo nut

Vegetationsgrenze

9 m



HALLSTÄTTER
SEE
2019
Transekt HAL04



Characeen

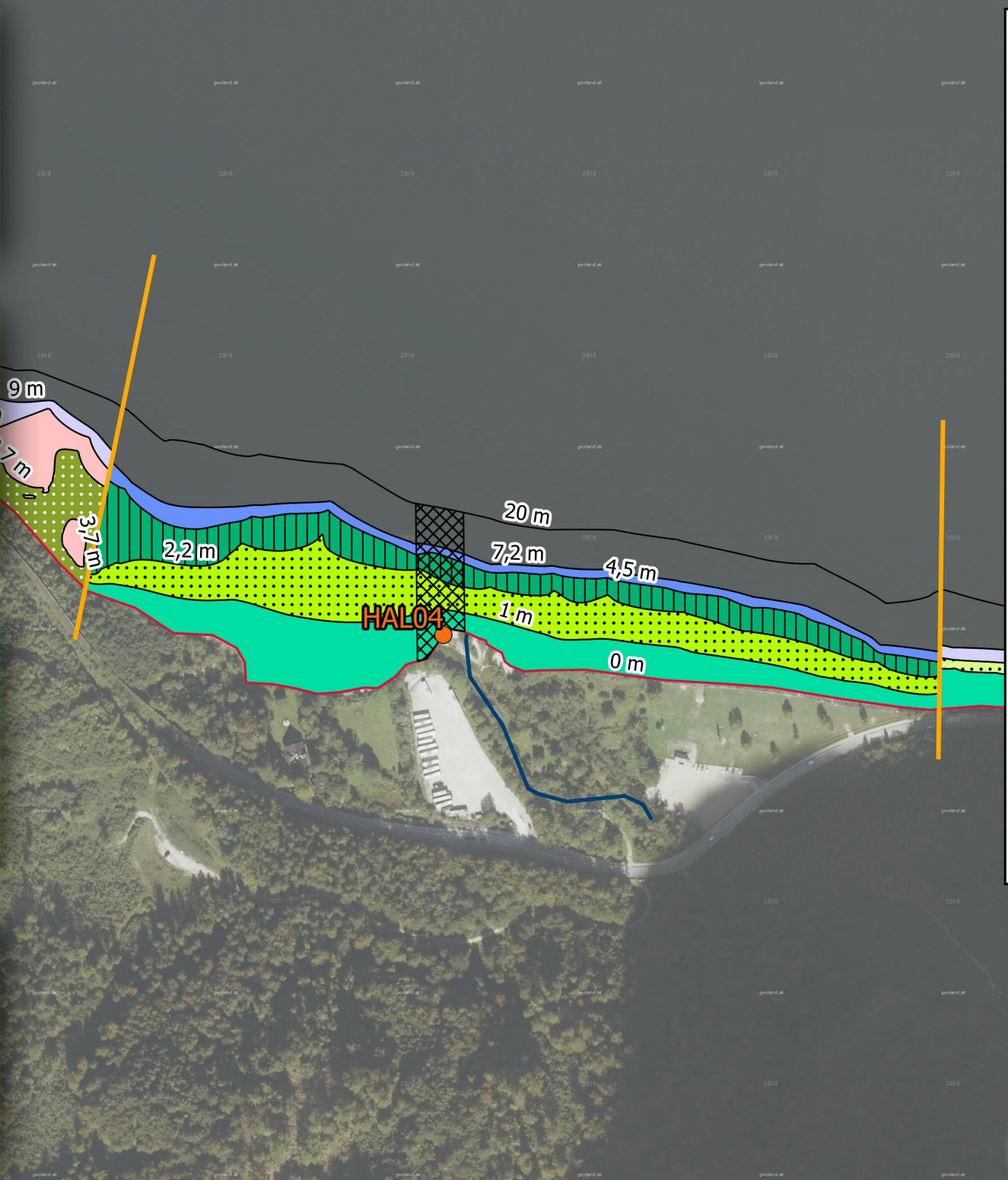
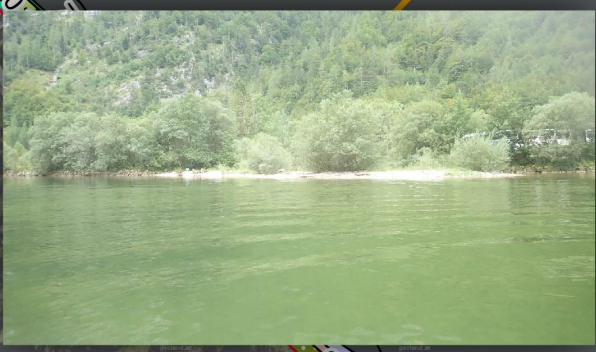
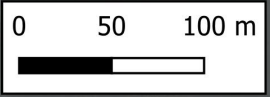
- Cha con
- Cha del
- Nit fle
- Nit opa

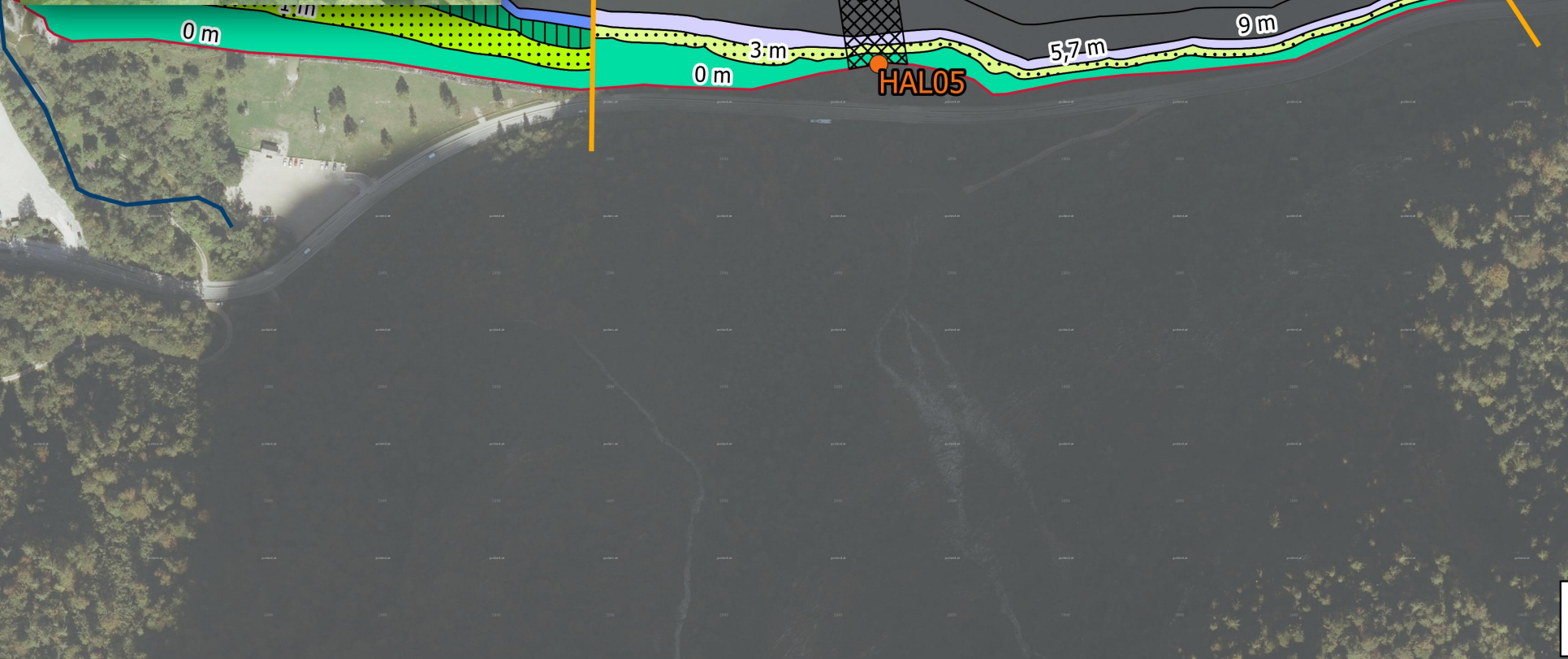
**Aquatische
Höhere Pflanzen**

- Elo can
- Pot fil
- Pot nit
- Ran con
- Pot per
- Ran cir
- Zan pal



Vegetationsgrenze


7,2 m





**HALLSTÄTTER
SEE
2019
Transekt HAL05**

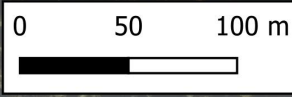
N  



Characeen
Cha del
Nit opa

**Aquatische
Höhere Pflanzen**
Elo nut
Ran tri

Vegetationsgrenze
9 m



HALLSTÄTTER
SEE
2019
Transekt HAL06



Characeen

Cha del
Nit opa
To1 glo

**Aquatische
Höhere Pflanzen**

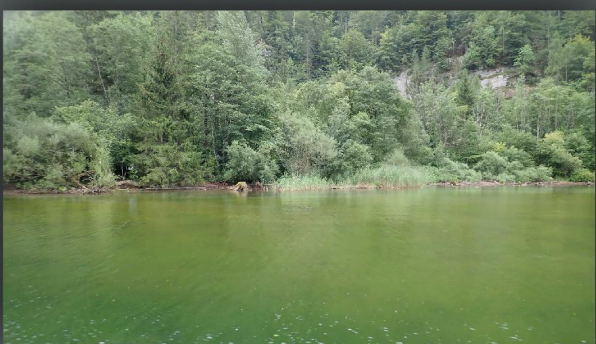
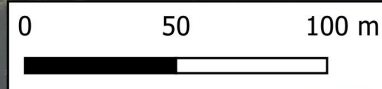
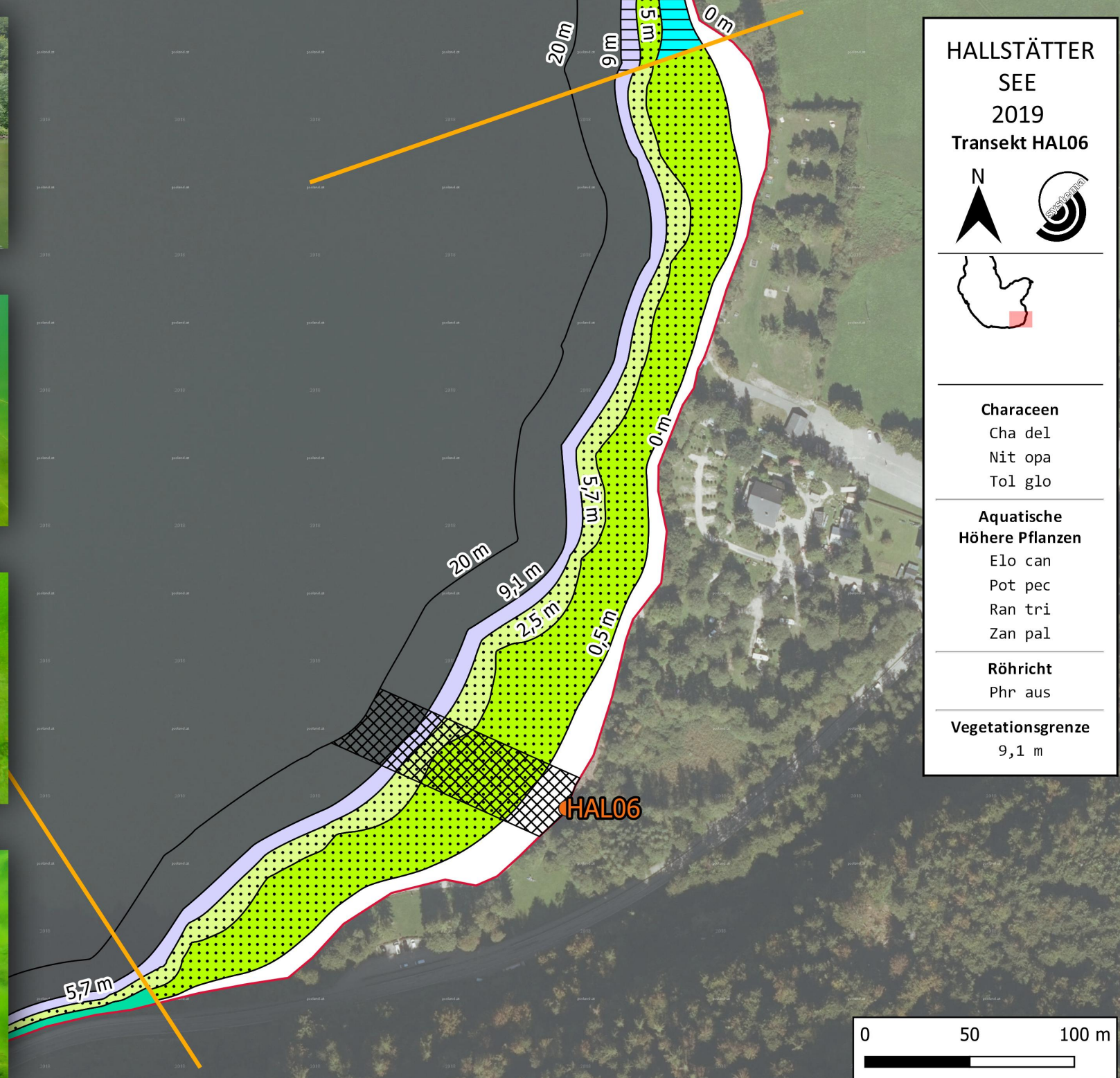
Elo can
Pot pec
Ran tri
Zan pal

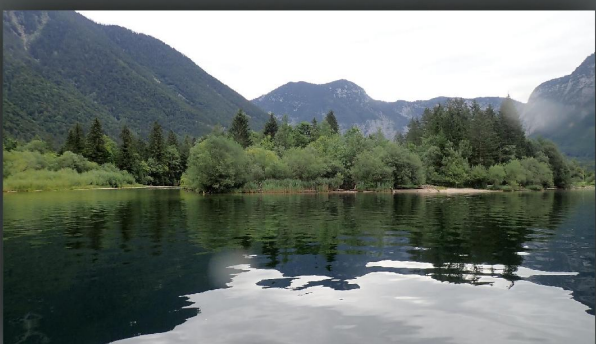
Röhrriht

Phr aus

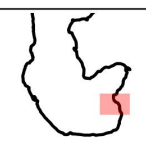
Vegetationsgrenze

9,1 m





HALLSTÄTTER
SEE
2019
Transekt HAL07



Characeen

- Cha asp
- Cha del
- Nit opa
- To1 glo

**Aquatische
Höhere Pflanzen**

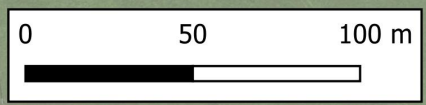
- Elo can
- Elo nut
- Pot nit
- Ran cir
- Ran tri

Röhricht

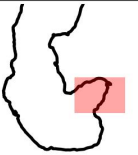
- Car sp

Vegetationsgrenze

9 m



HALLSTÄTTER
SEE
2019
Transekt HAL08



Characeen

- Cha cvh
- Cha del
- Nit opa
- To1 glo

**Aquatische
Höhere Pflanzen**

- Elo can
- Pot ber
- Pot fil
- Pot nit
- Pot pus

Moose

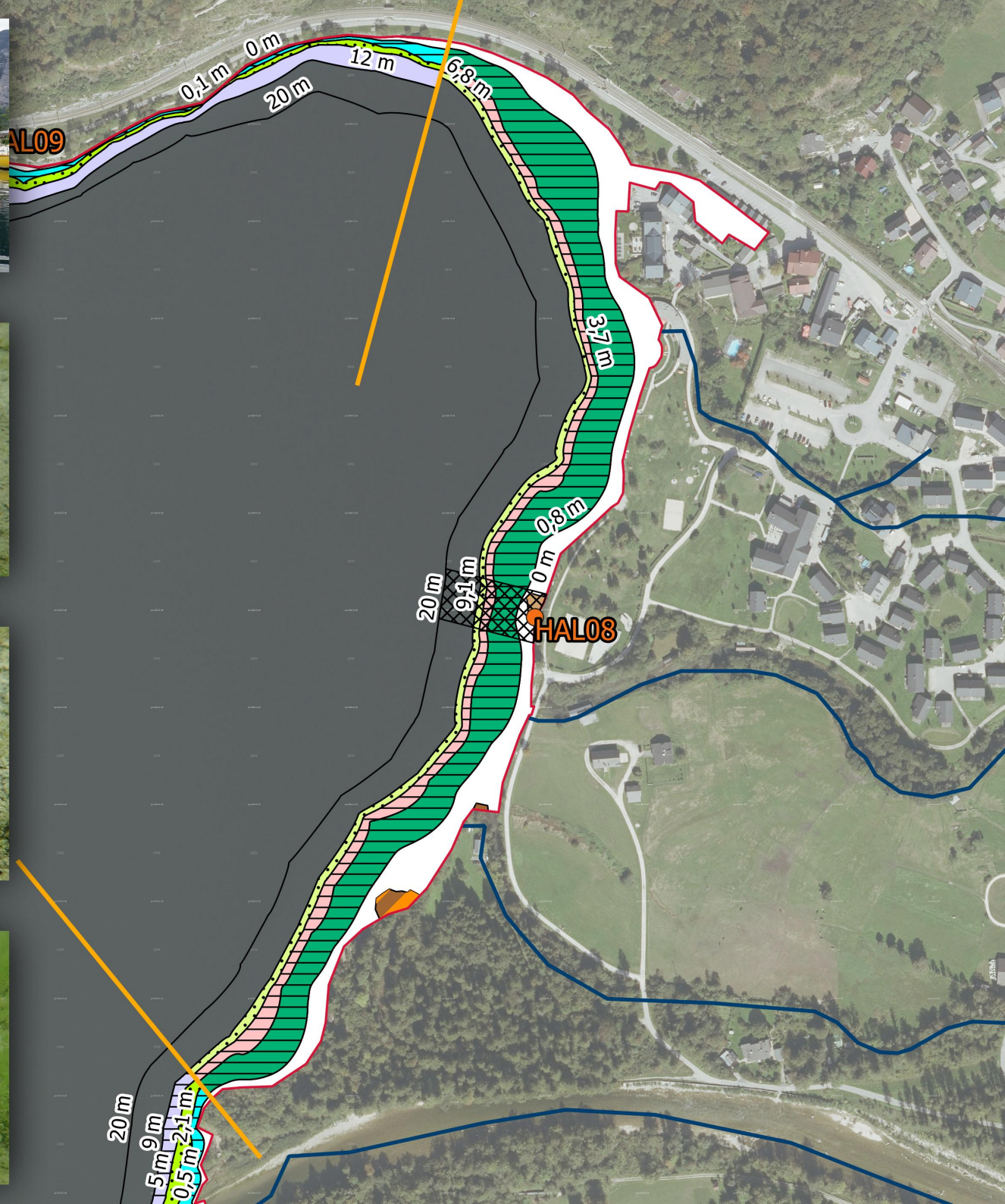
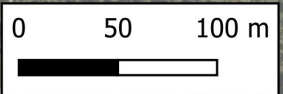
- Cae cus

Röhricht

- Pha aru

Vegetationsgrenze

9,1 m



HALLSTÄTTER
SEE
2019
Transekt HAL09



Characeen

- Cha asp
- Cha cvh
- Cha del
- Cha glo
- Nit opa

**Aquatische
Höhere Pflanzen**

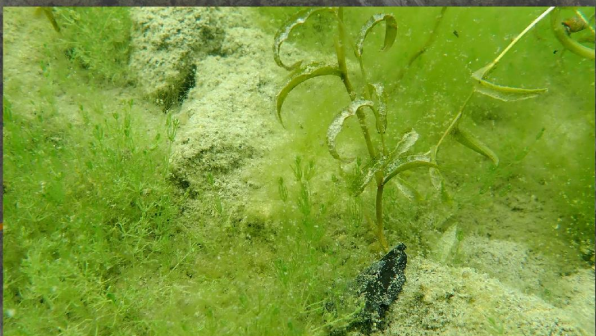
- Elo can
- Pot nit
- Ran con

Röhricht

- Car sp

Vegetationsgrenze

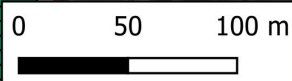
12 m



HAL10

HAL09

HAL08



HALLSTÄTTER
SEE
2019
Transekt HAL10



Characeen

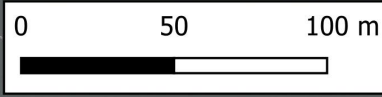
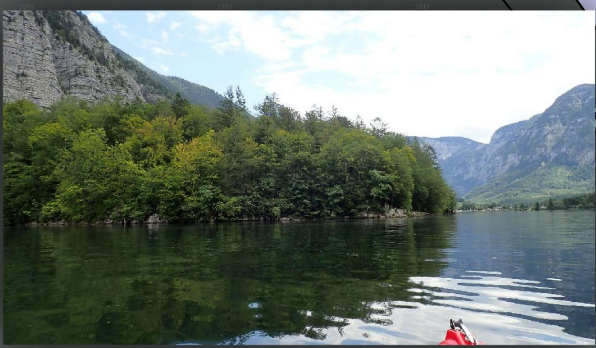
- Cha asp
- Cha con
- Cha del
- Cha glo
- Nit opa

**Aquatische
Höhere Pflanzen**

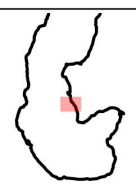
- Elo can
- Pot nit
- Ran con

Vegetationsgrenze

11 m



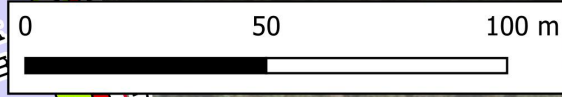
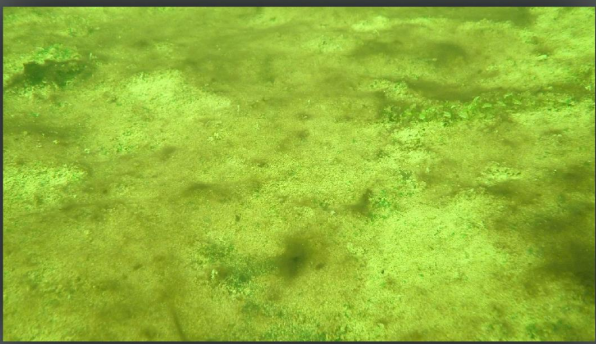
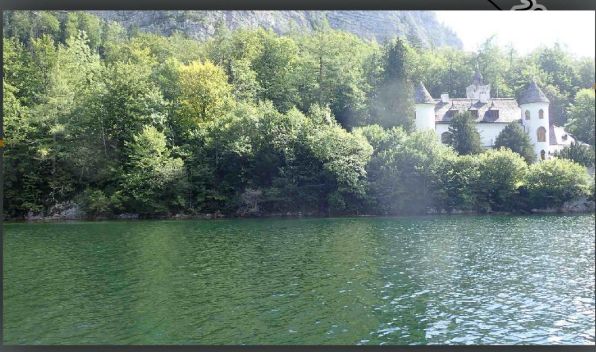
HALLSTÄTTER
SEE
2019
Transekt HAL11



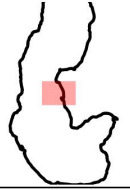
- Characeen**
 Cha asp
 Cha del
 Cha glo
 Nit opa

- Aquatische
Höhere Pflanzen**
 Elo can
 Ran con

Vegetationsgrenze
 9,9 m



HALLSTÄTTER
SEE
2019
Transekt HAL12



Characeen

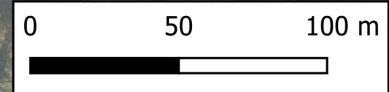
- Cha asp
- Cha cvh
- Cha str
- Nit opa

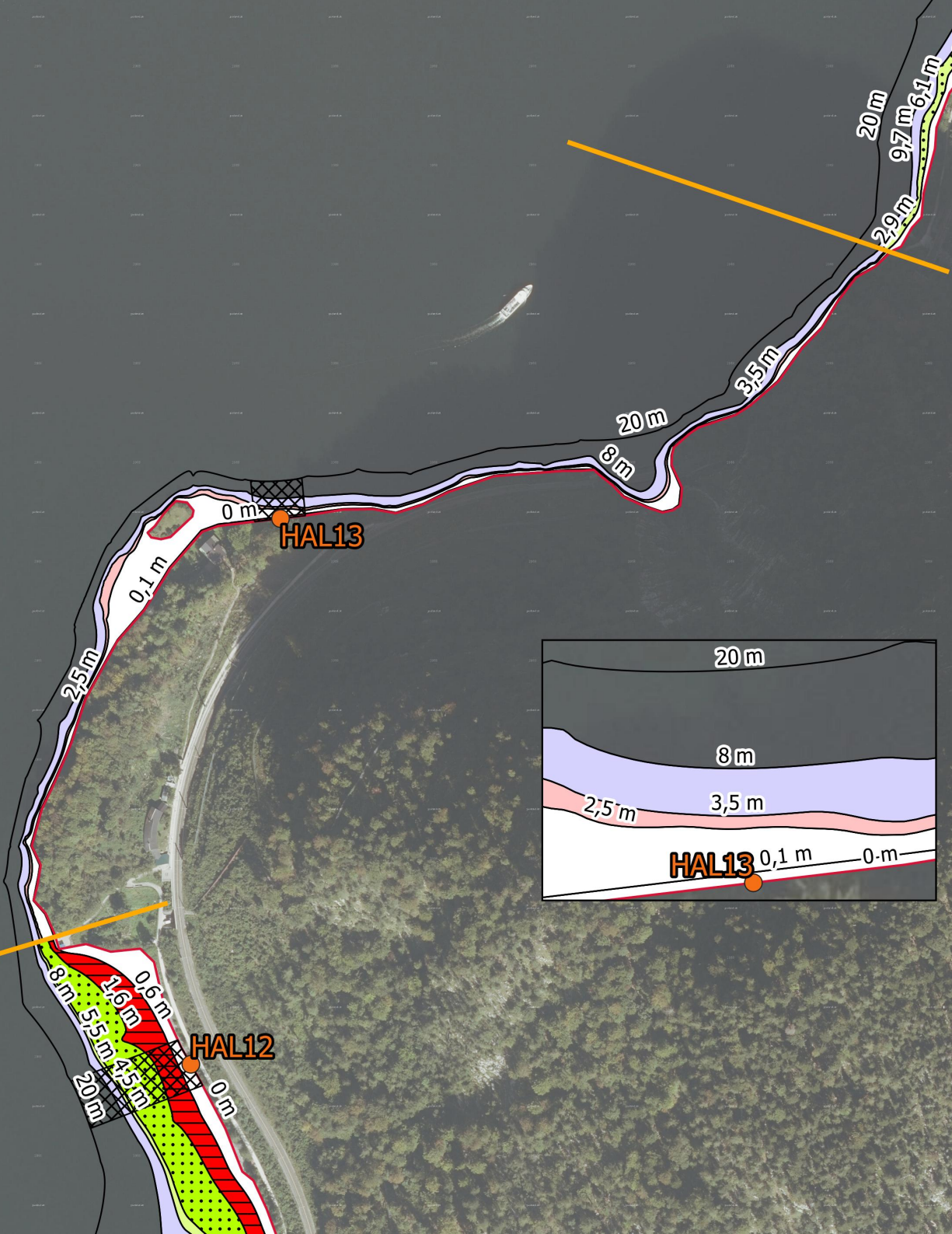
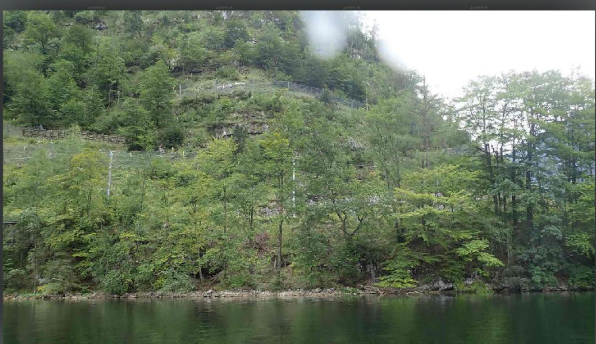
**Aquatische
Höhere Pflanzen**

- Elo can
- Pot ber
- Ran con

Vegetationsgrenze

8 m





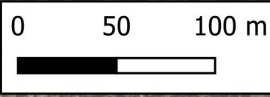
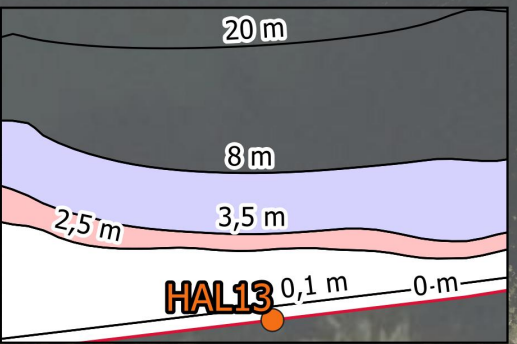
HALLSTÄTTER SEE
2019
Transekt HAL13

N

Characeen
 Cha con
 Cha del
 Nit opa

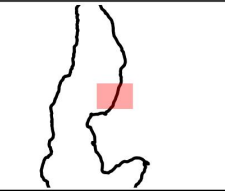
Röhricht
 Car sp
 Lyc eur

Vegetationsgrenze
 8 m





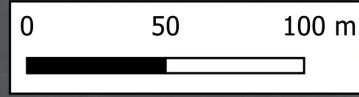
HALLSTÄTTER
SEE
2019
Transekt HAL14

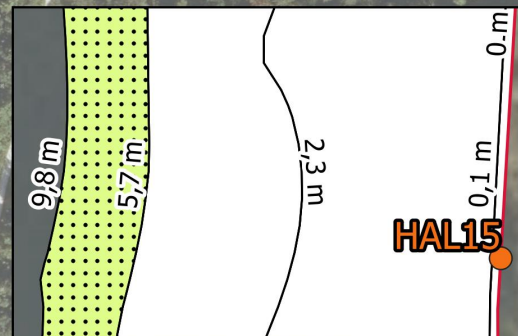
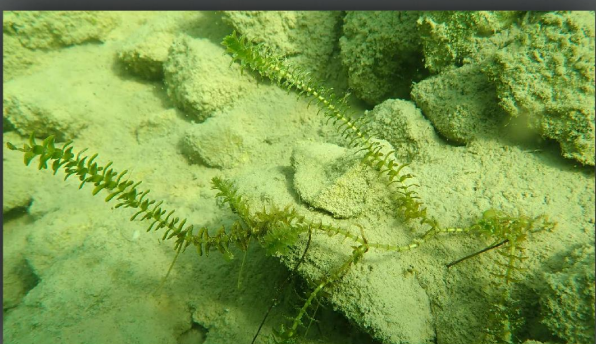


Characeen
Cha con
Cha glo
Nit opa

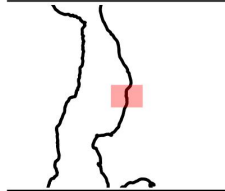
**Aquatische
Höhere Pflanzen**
Elo can

Vegetationsgrenze
9,7 m





HALLSTÄTTER
SEE
2019
Transekt HAL15

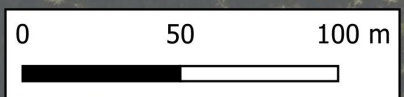


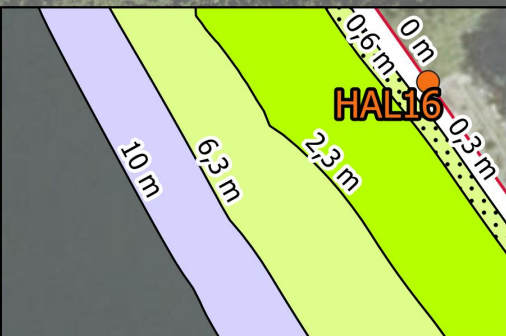
Characeen
Cha con
Cha glo
Nit opa

**Aquatische
Höhere Pflanzen**
Elo can
Pot ber

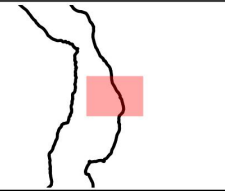
Röhricht
Car sp

Vegetationsgrenze
9,8 m





HALLSTÄTTER
SEE
2019
Transekt HAL16



Characeen
Cha asp
Nit opa

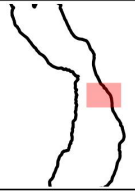
**Aquatische
Höhere Pflanzen**
Elo can
Pot ber
Pot nit
Ran con

Röhricht
Des ces

Vegetationsgrenze
10 m



HALLSTÄTTER
SEE
2019
Transekt HAL17



Characeen

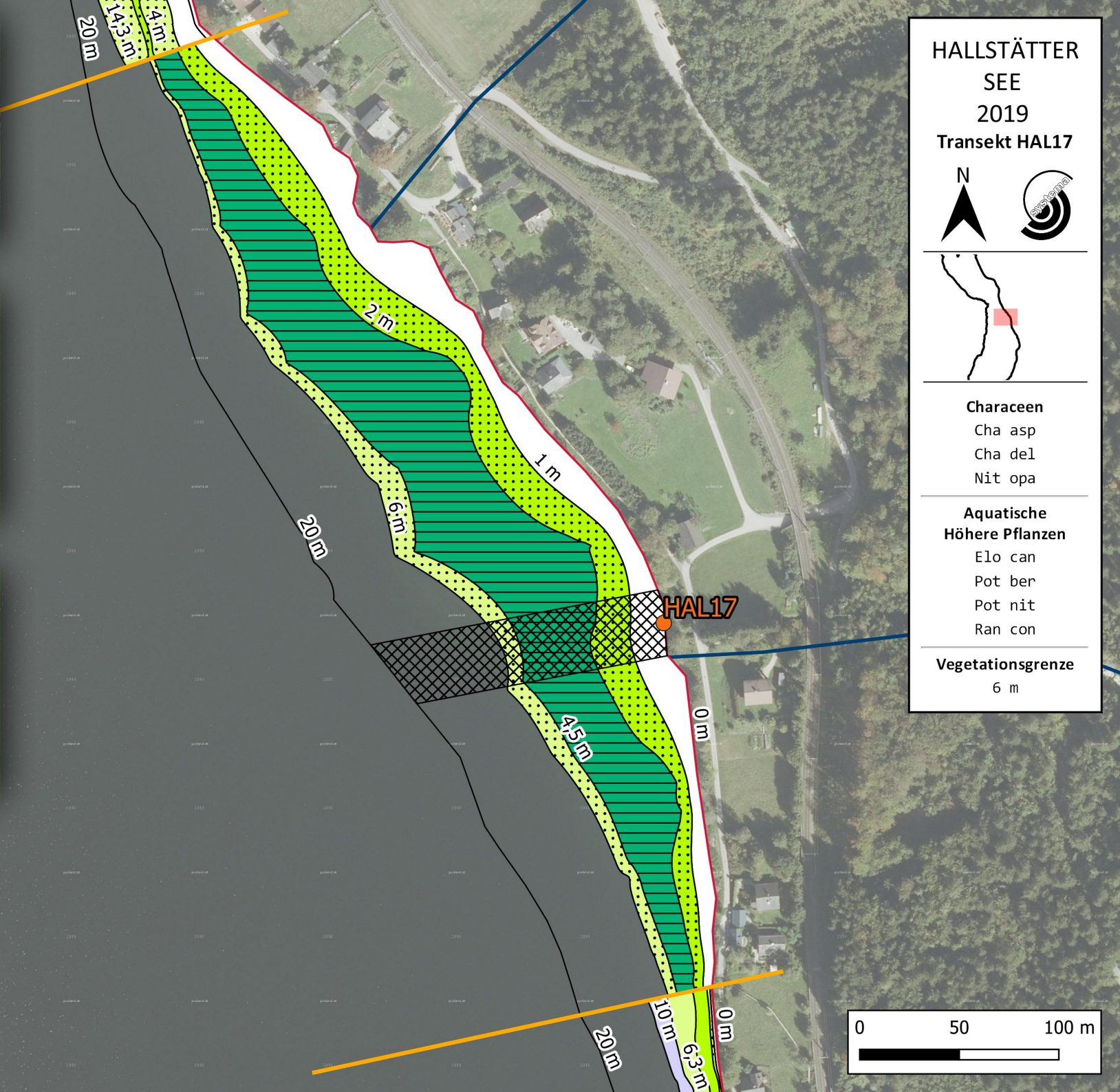
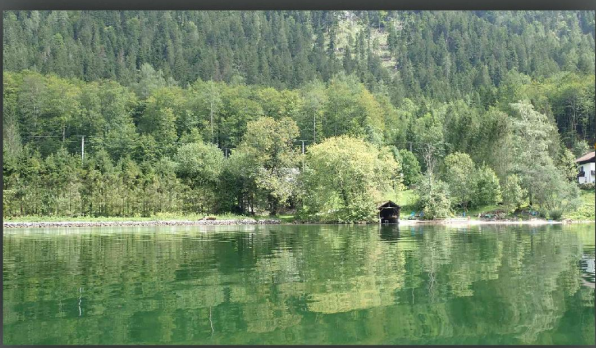
- Cha asp
- Cha del
- Nit opa

**Aquatische
Höhere Pflanzen**

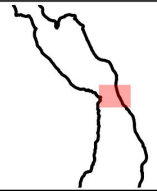
- Elo can
- Pot ber
- Pot nit
- Ran con

Vegetationsgrenze

6 m



HALLSTÄTTER
SEE
2019
Transekt HAL18



Characeen

- Cha cvh
- Cha del
- Cha glo
- Cha rud
- Nit opa

**Aquatische
Höhere Pflanzen**

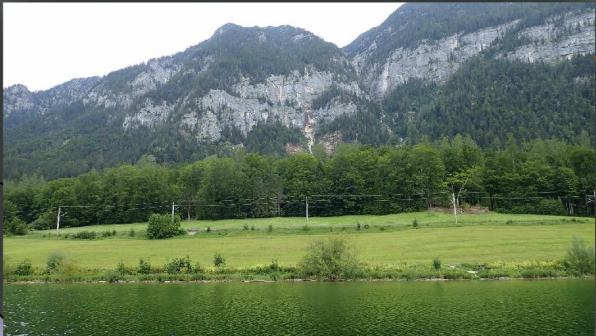
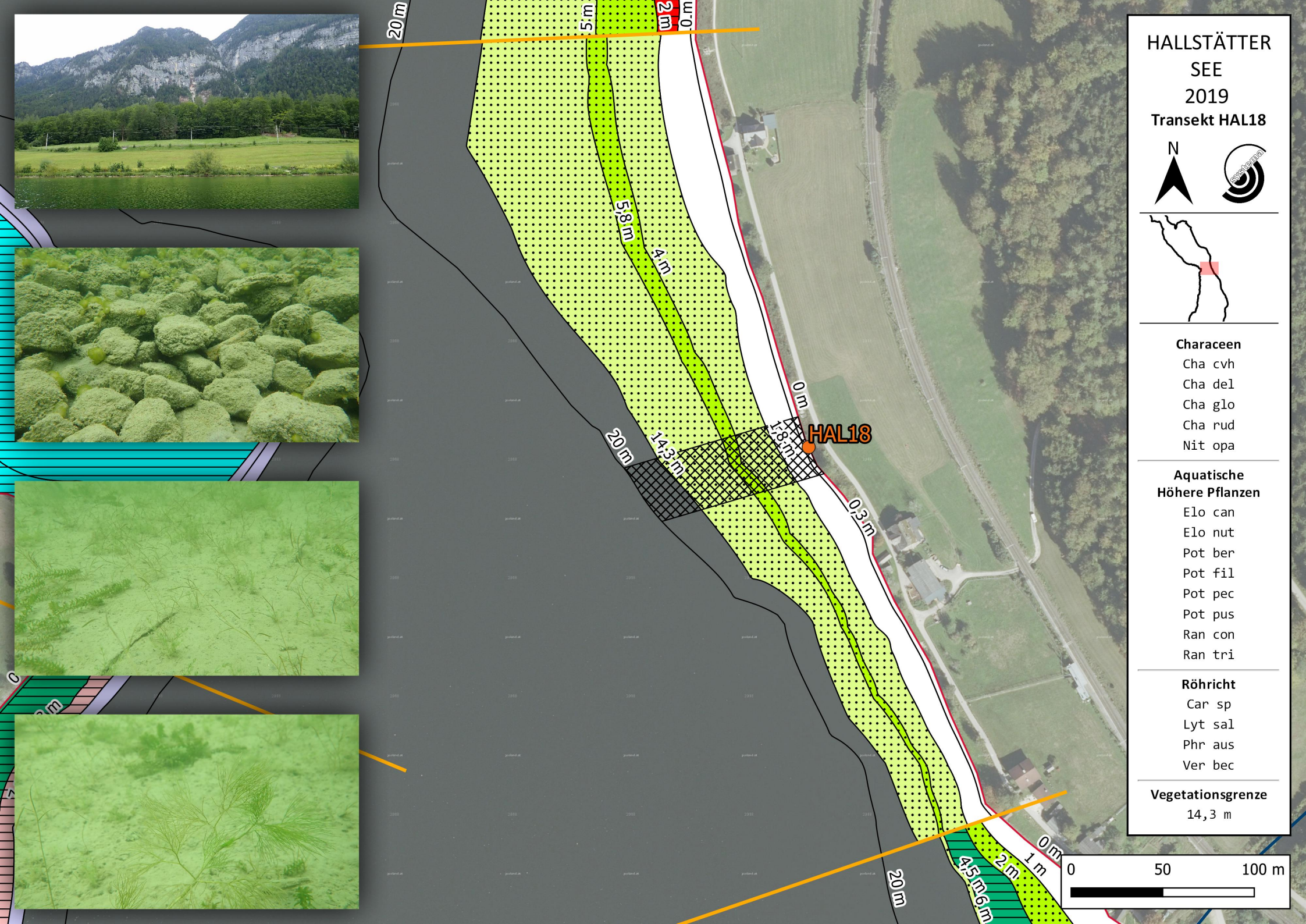
- Elo can
- Elo nut
- Pot ber
- Pot fil
- Pot pec
- Pot pus
- Ran con
- Ran tri

Röhricht

- Car sp
- Lyt sal
- Phr aus
- Ver bec

Vegetationsgrenze

14,3 m



HALLSTÄTTER
SEE
2019
Transekt HAL19



Characeen

- Cha asp
- Cha cvh
- Cha del
- Cha glo
- Nit opa

**Aquatische
Höhere Pflanzen**

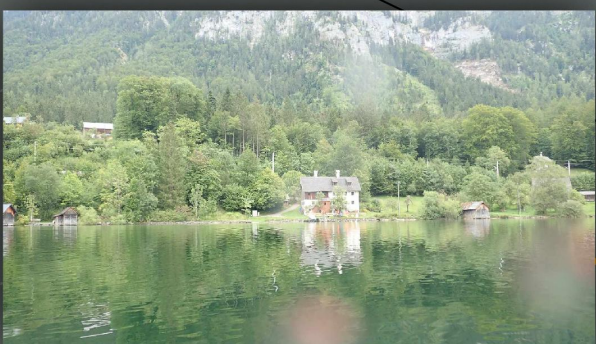
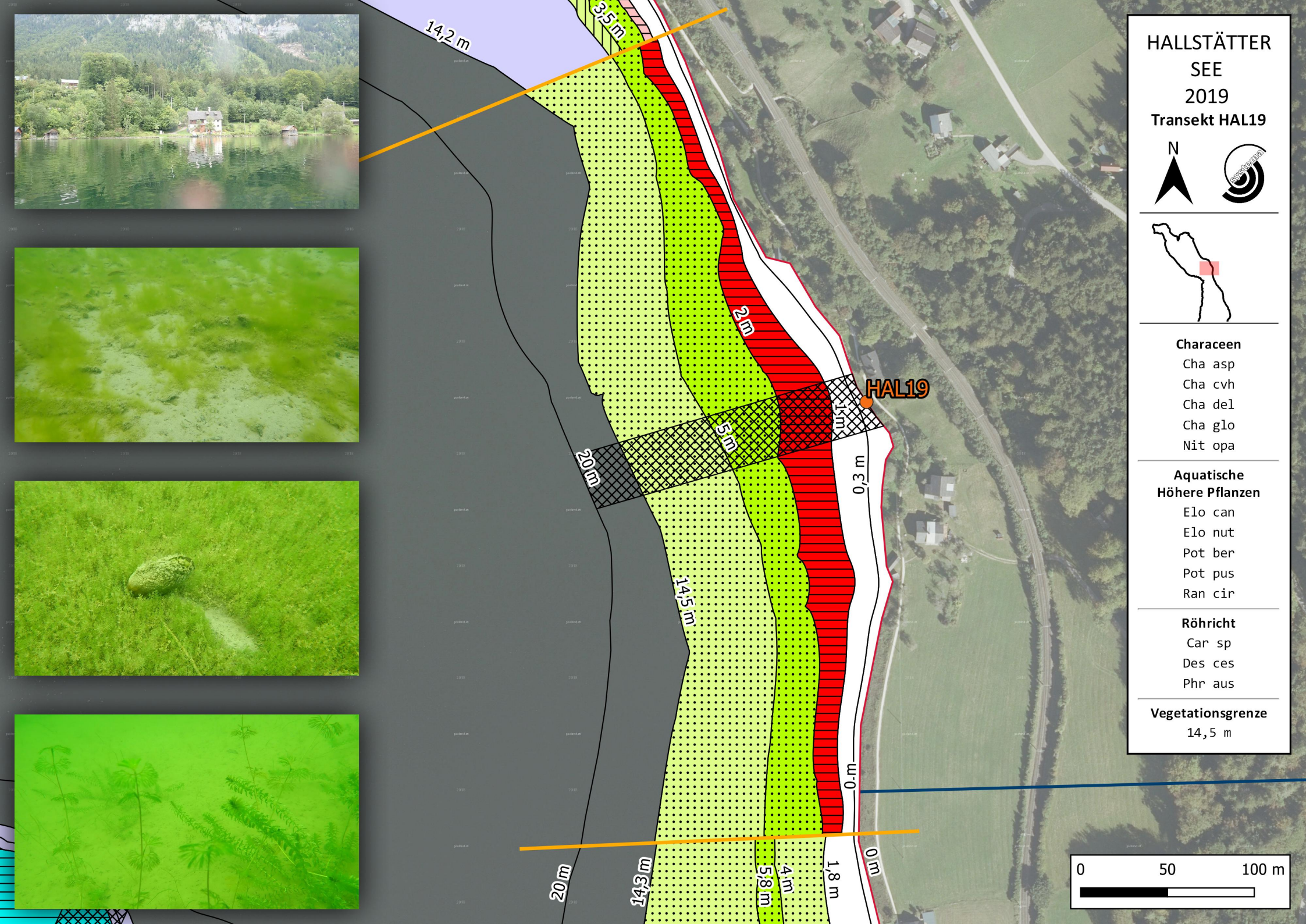
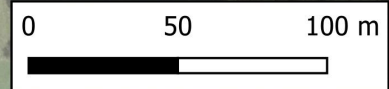
- Elo can
- Elo nut
- Pot ber
- Pot pus
- Ran cir

Röhricht

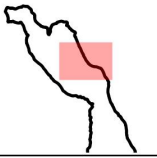
- Car sp
- Des ces
- Phr aus

Vegetationsgrenze

14,5 m



HALLSTÄTTER
SEE
2019
Transekt HAL20



Characeen

- Cha asp
- Cha con
- Cha del
- Cha glo
- Cha pol
- Nit opa

**Aquatische
Höhere Pflanzen**

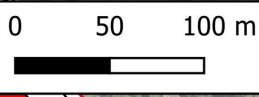
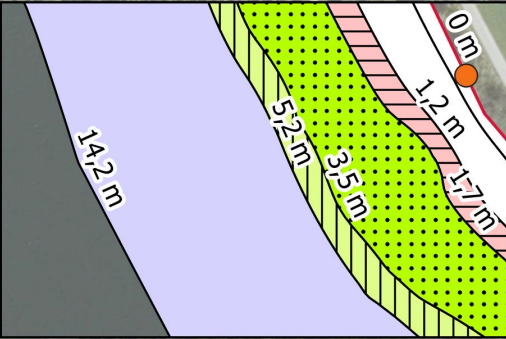
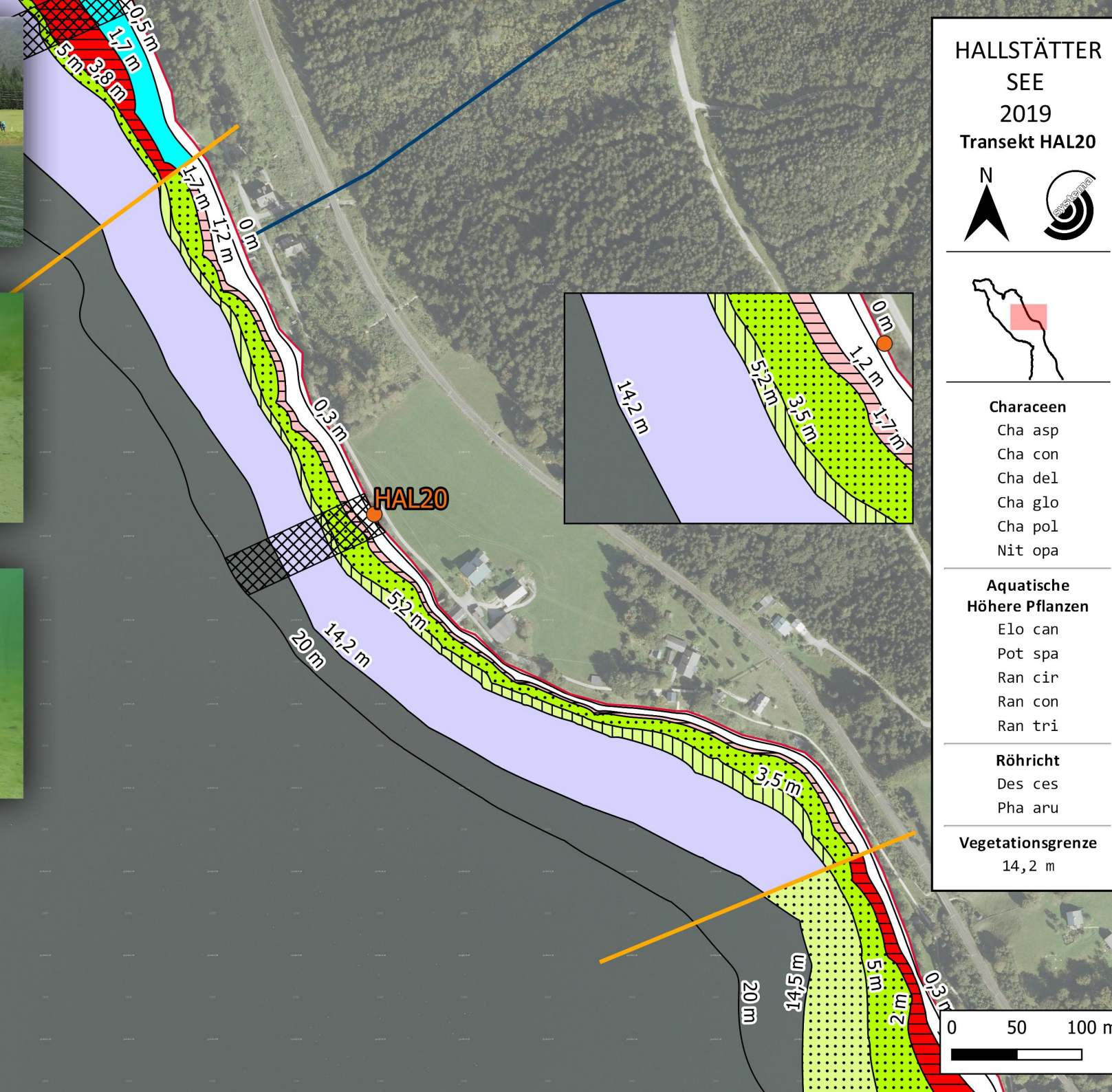
- Elo can
- Pot spa
- Ran cir
- Ran con
- Ran tri

Röhrriecht

- Des ces
- Pha aru

Vegetationsgrenze

14,2 m



HALLSTÄTTER
SEE
2019
Transekt HAL21



Characeen

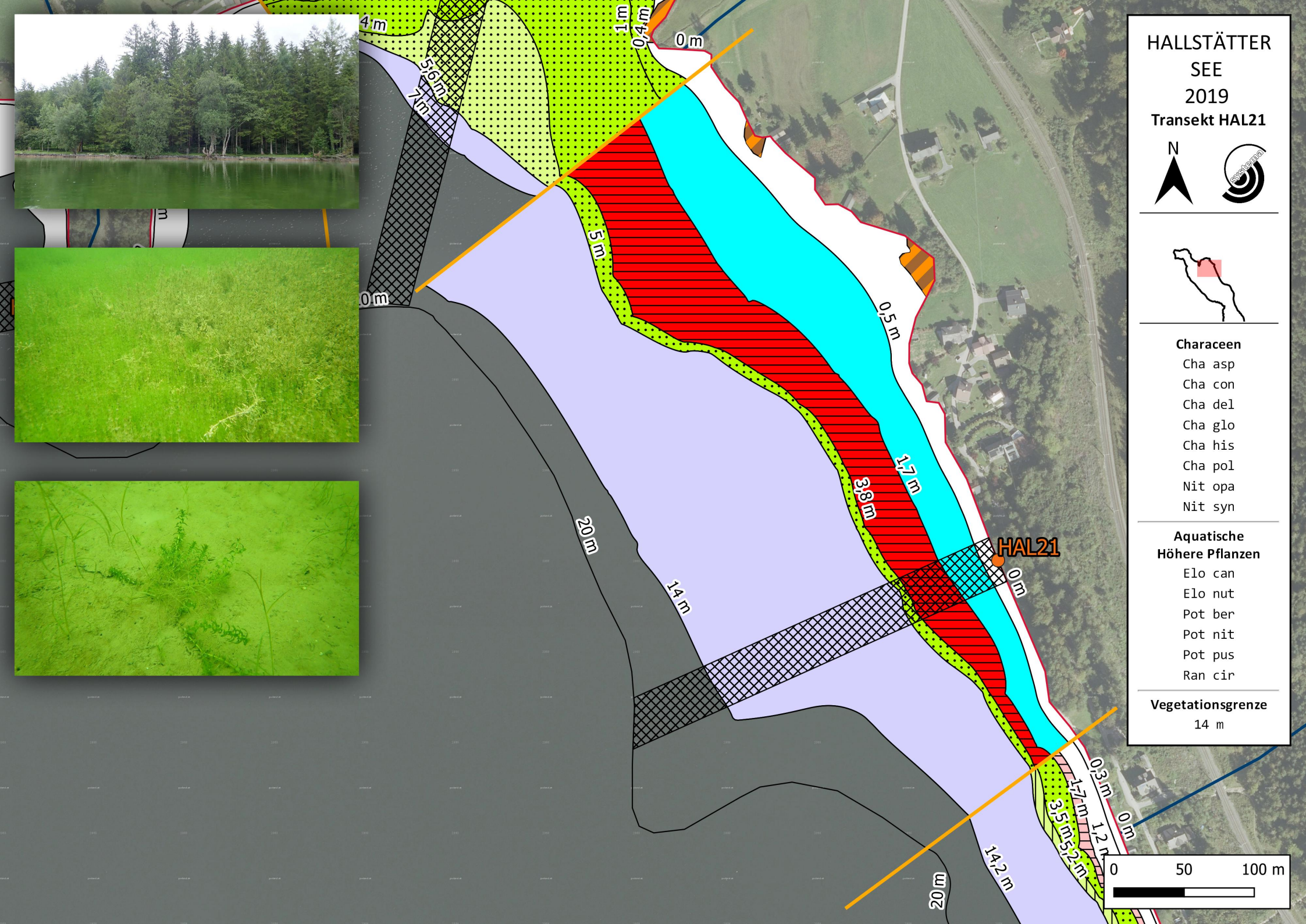
- Cha asp
- Cha con
- Cha del
- Cha glo
- Cha his
- Cha pol
- Nit opa
- Nit syn

**Aquatische
Höhere Pflanzen**

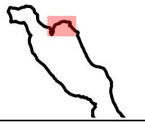
- Elo can
- Elo nut
- Pot ber
- Pot nit
- Pot pus
- Ran cir

Vegetationsgrenze

14 m



HALLSTÄTTER
SEE
2019
Transekt HAL22



Characeen

- Cha asp
- Cha con
- Cha del
- Cha glo
- Nit syn

**Aquatische
Höhere Pflanzen**

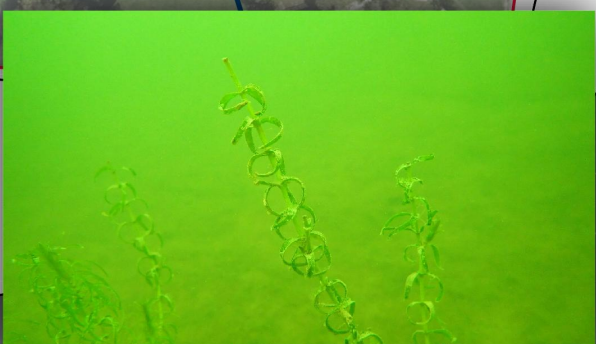
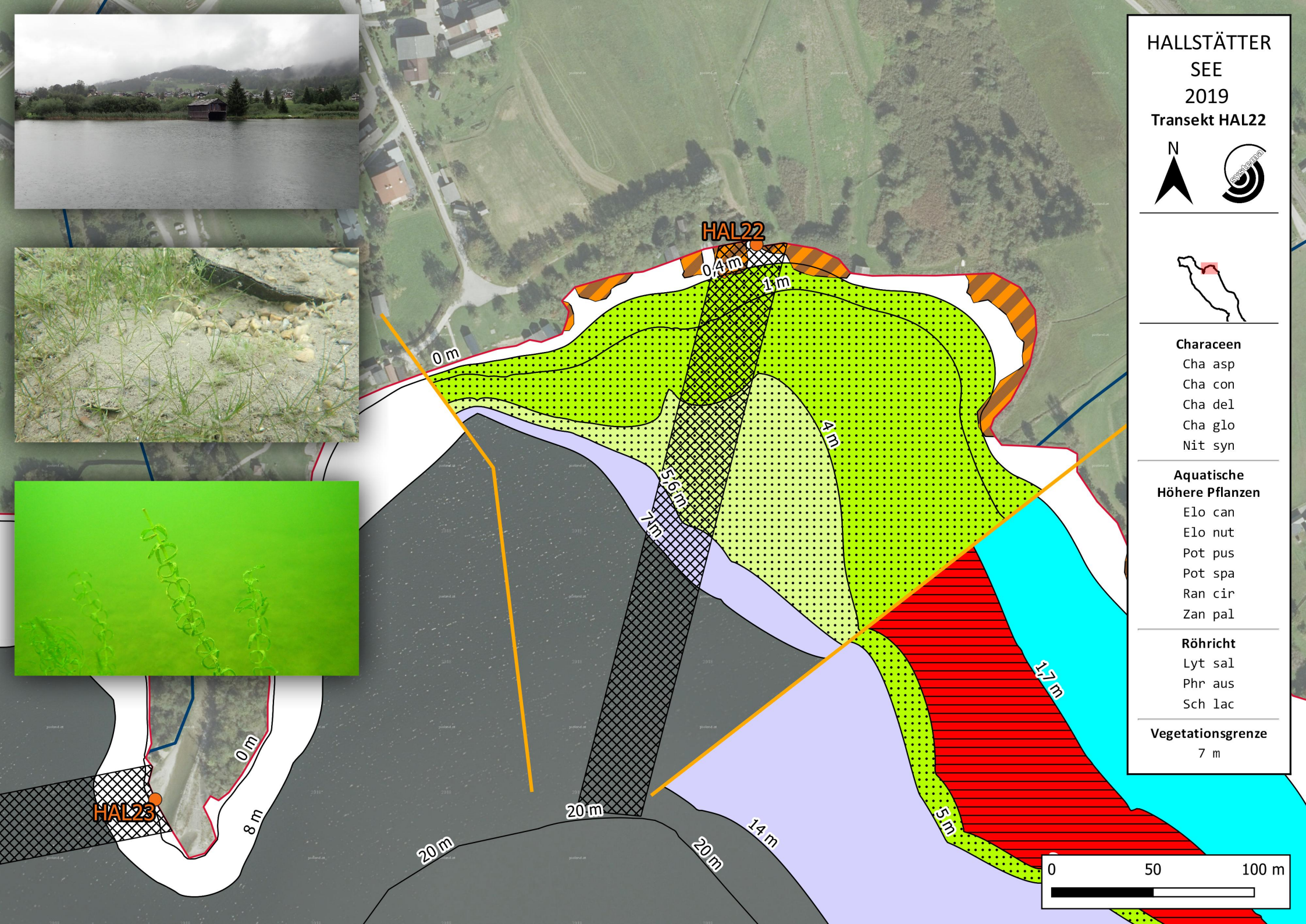
- Elo can
- Elo nut
- Pot pus
- Pot spa
- Ran cir
- Zan pal

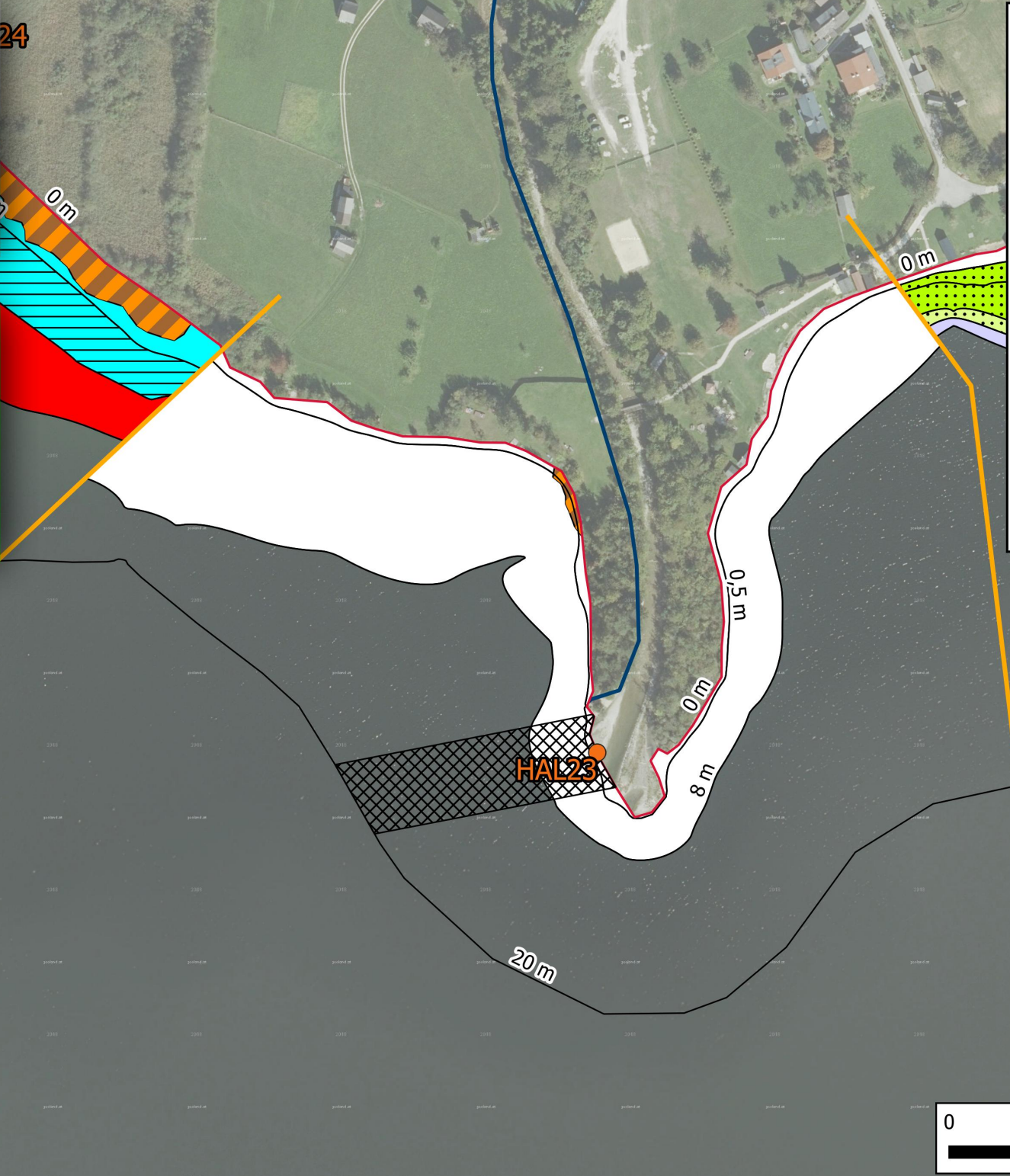
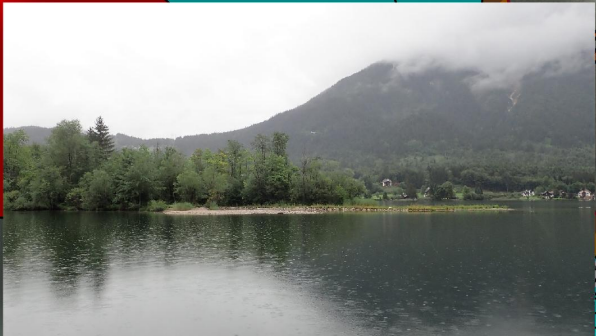
Röhrriht

- Lyt sal
- Phr aus
- Sch lac


Vegetationsgrenze


7 m

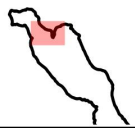




HALLSTÄTTER
SEE
2019
Transekt HAL23

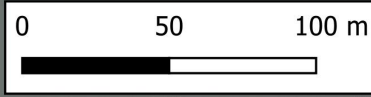
N 



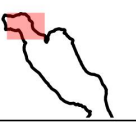


Röhricht
Pha aru

Vegetationsgrenze
0 m



HALLSTÄTTER
SEE
2019
Transekt HAL24

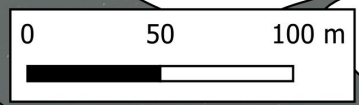
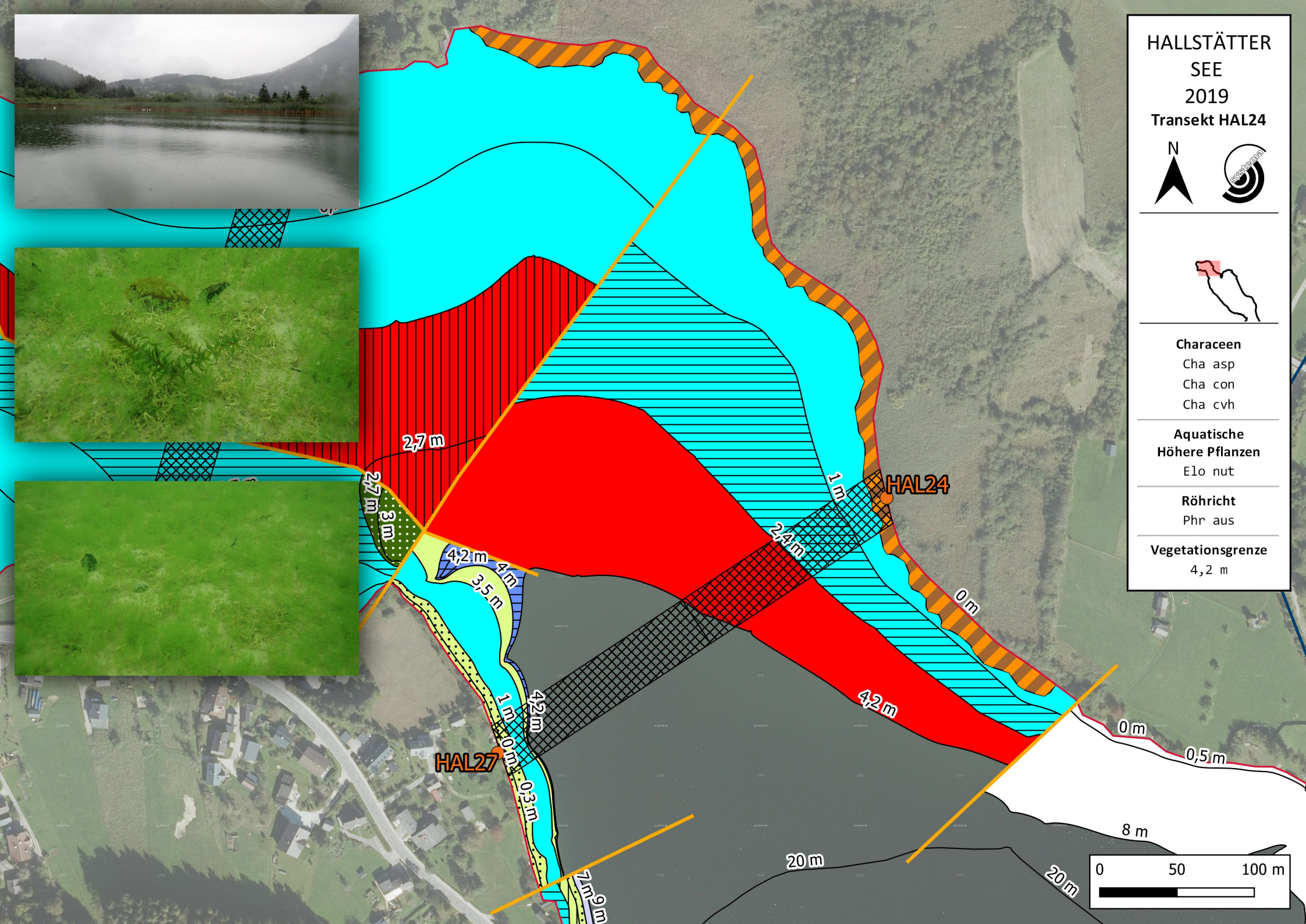


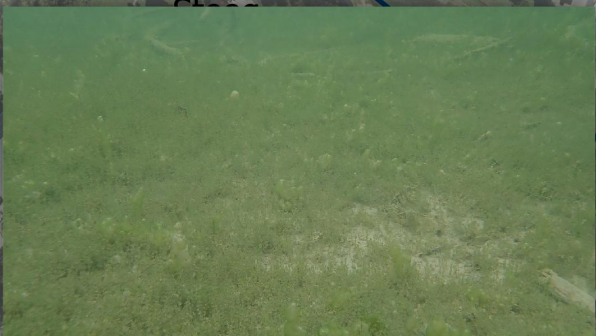
Characeen
Cha asp
Cha con
Cha cvh

**Aquatische
Höhere Pflanzen**
Elo nut

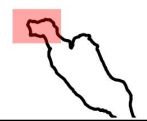
Röhricht
Phr aus

Vegetationsgrenze
4,2 m





HALLSTÄTTER
SEE
2019
Transekt HAL25

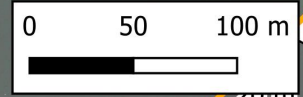
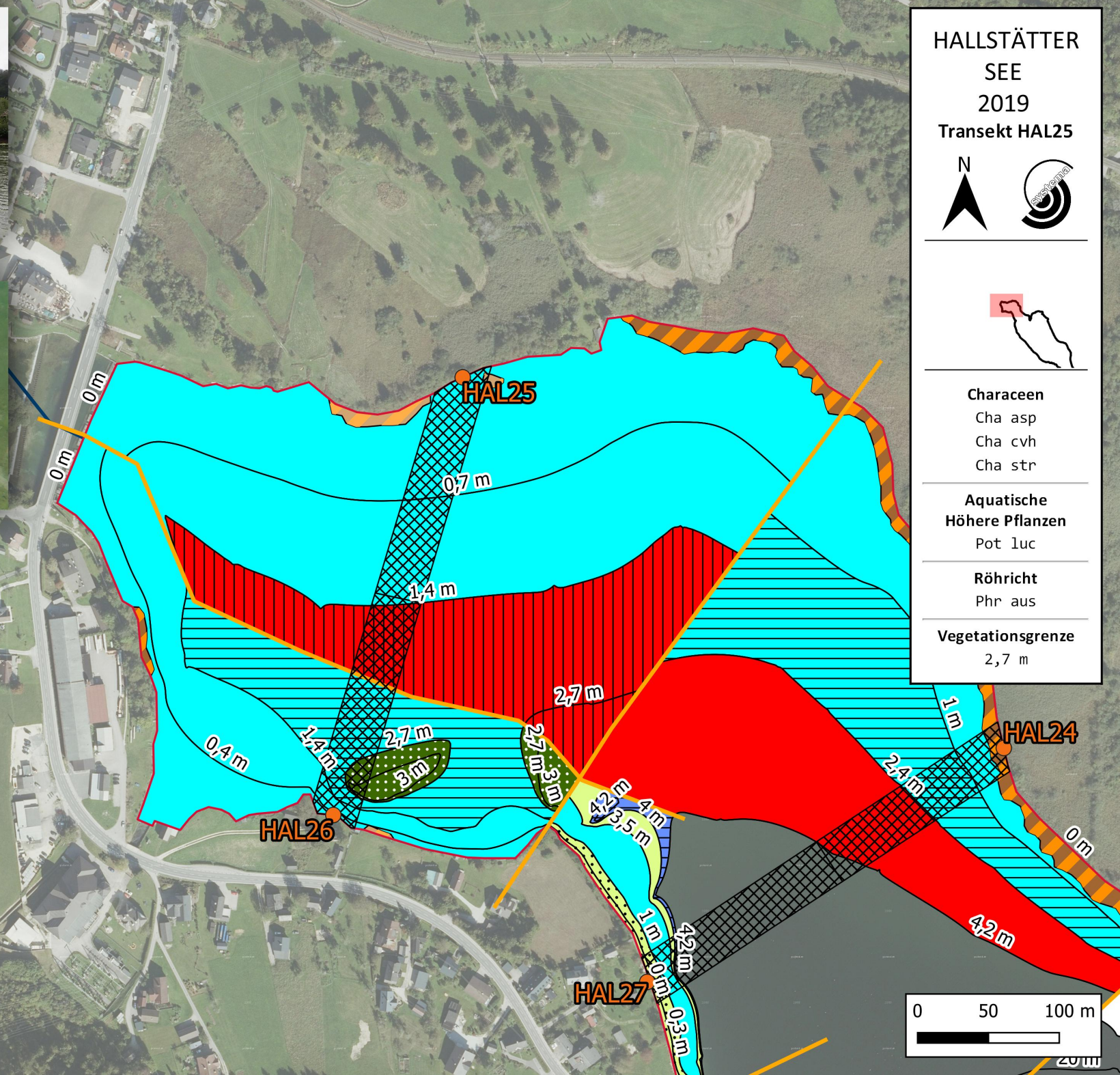


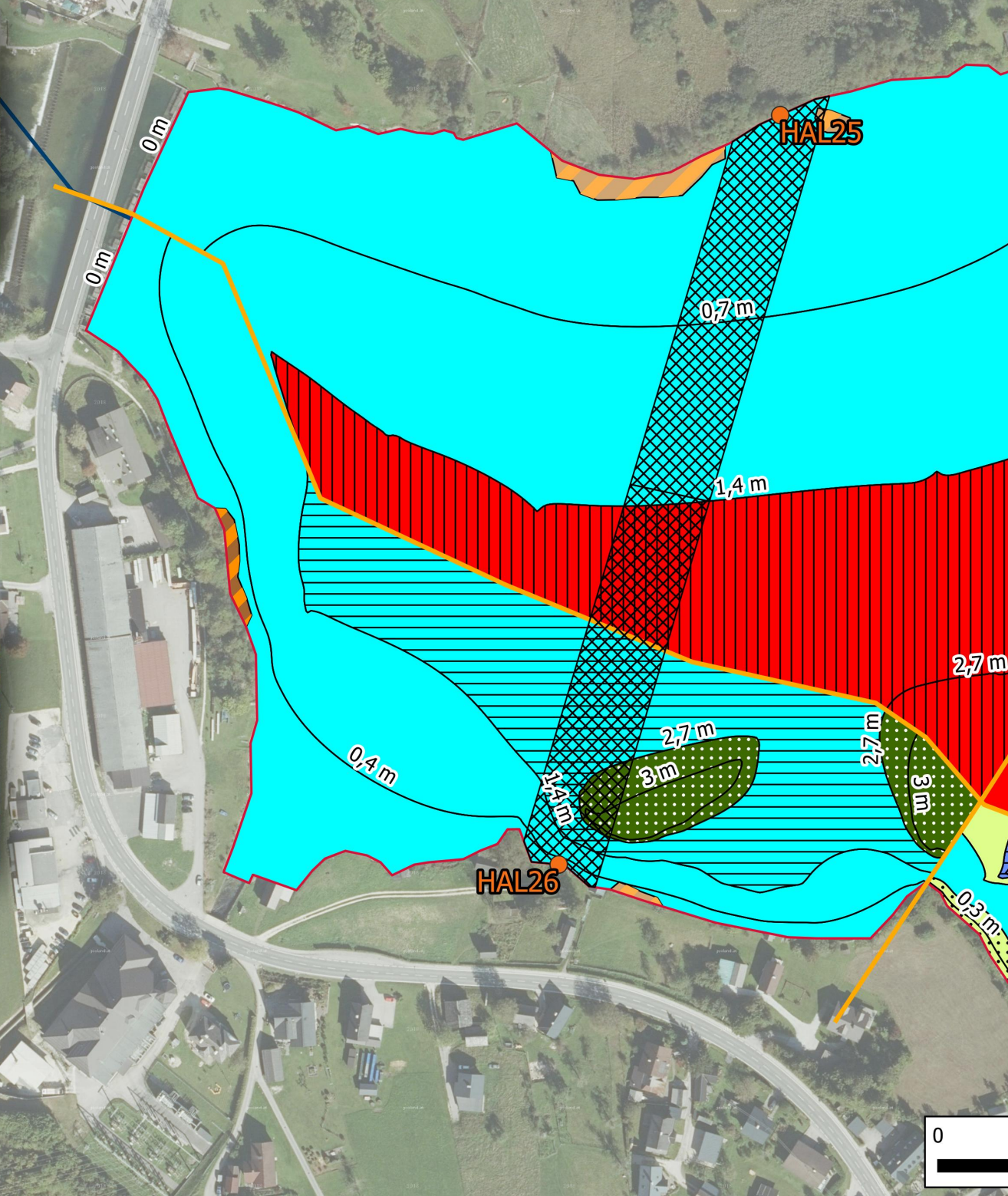
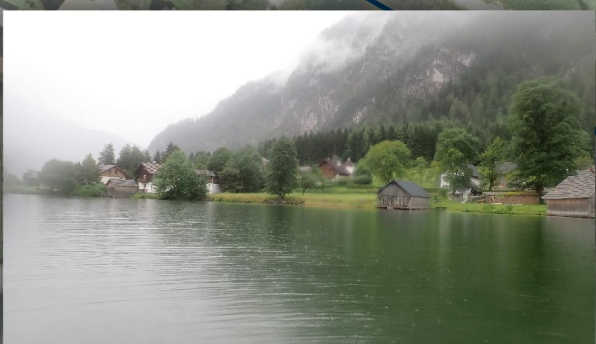
Characeen
Cha asp
Cha cvh
Cha str

**Aquatische
Höhere Pflanzen**
Pot luc

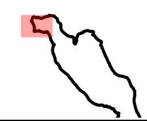
Röhricht
Phr aus

Vegetationsgrenze
2,7 m





HALLSTÄTTER
SEE
2019
Transekt HAL26

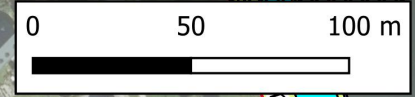


Characeen
Cha asp
Cha del

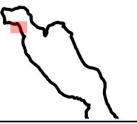
**Aquatische
Höhere Pflanzen**
Elo can
Elo nut
Pot luc
Ran cir
Ran con

Röhricht
Lyt sal
Pha aru
Phr aus

Vegetationsgrenze
3 m



HALLSTÄTTER
SEE
2019
Transekt HAL27



Characeen

- Cha asp
- Cha del
- Cha pol
- Nit opa
- Toi glo

**Aquatische
Höhere Pflanzen**

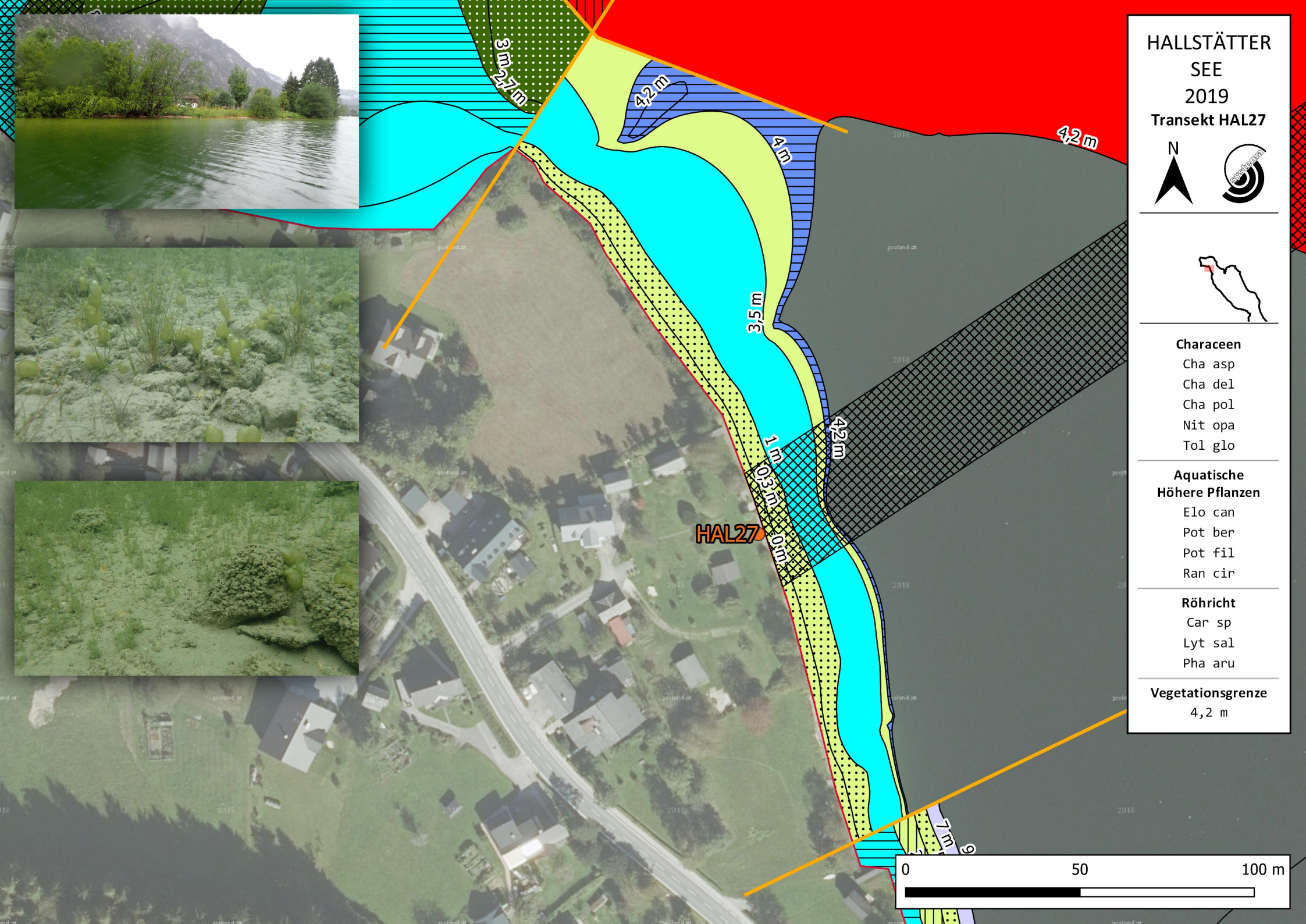
- Elo can
- Pot ber
- Pot fil
- Ran cir

Röhricht

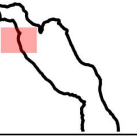
- Car sp
- Lyt sal
- Pha aru

Vegetationsgrenze

4,2 m



HALLSTÄTTER
SEE
2019
Transekt HAL28



Characeen

- Cha asp
- Cha del
- Cha glo
- Cha str

**Aquatische
Höhere Pflanzen**

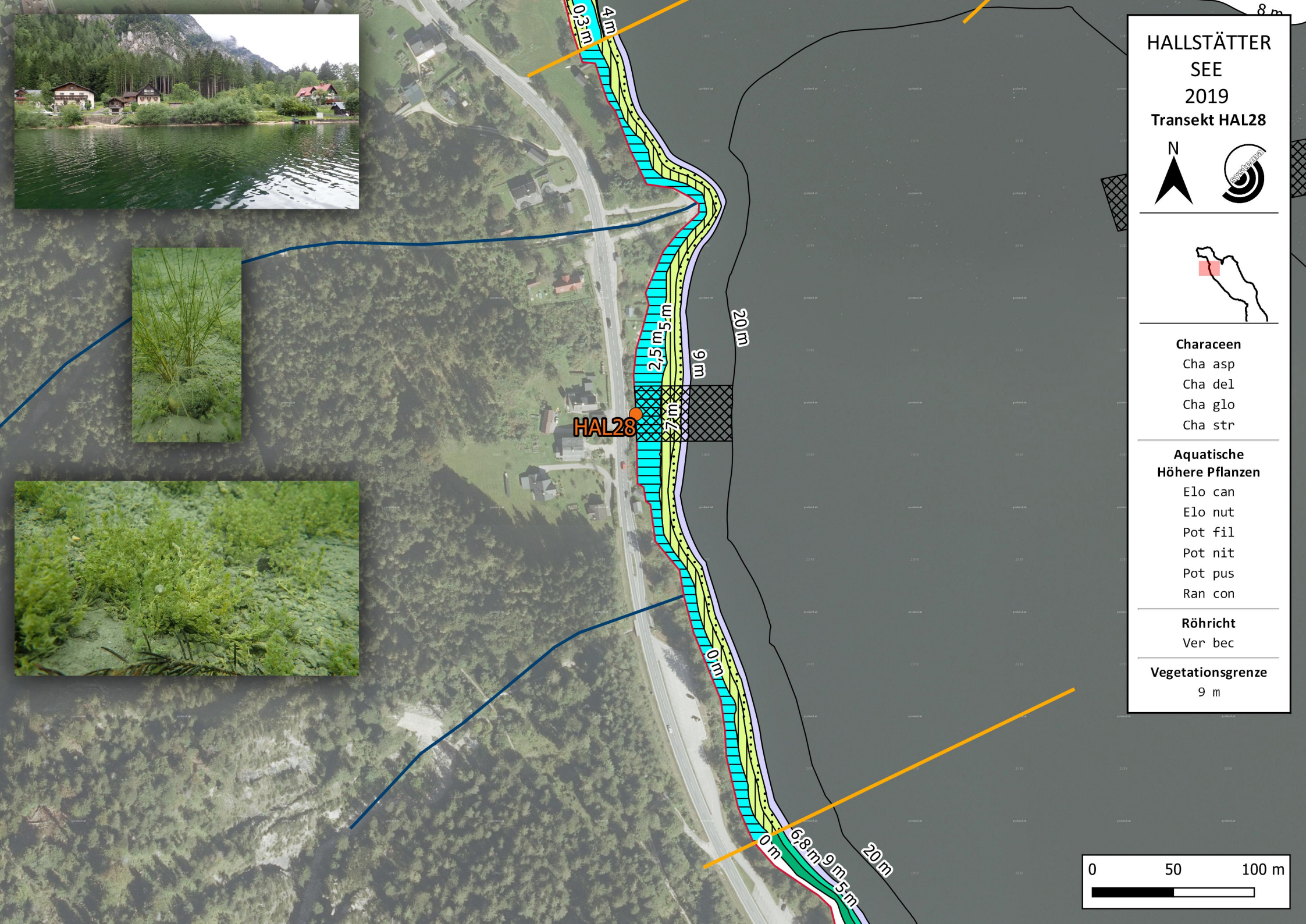
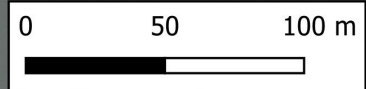
- Elo can
- Elo nut
- Pot fil
- Pot nit
- Pot pus
- Ran con

Röhrriht

- Ver bec

Vegetationsgrenze

9 m

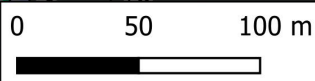


HALLSTÄTTER
SEE
2019
Transekt HAL29



- Characeen
Cha del
Cha glo
Cha pol
Nit opa

Vegetationsgrenze
9 m



HALLSTÄTTER
SEE
2019
Transekt HAL30



Characeen

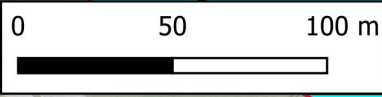
- Cha asp
- Cha del
- Cha glo
- Cha str
- Nit opa

**Aquatische
Höhere Pflanzen**

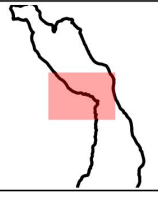
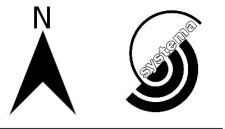
- Elo nut
- Pot nit
- Ran con

Vegetationsgrenze

9,5 m



HALLSTÄTTER
SEE
2019
Transekt HAL31



Characeen

- Cha asp
- Cha con
- Cha cvh
- Cha del
- Cha glo
- Nit opa

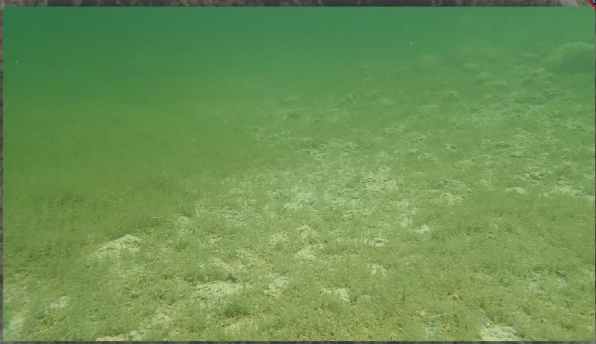
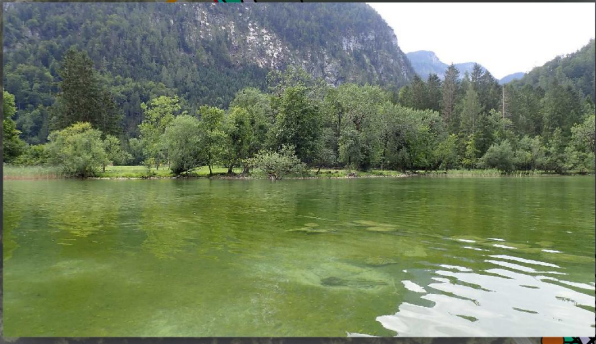
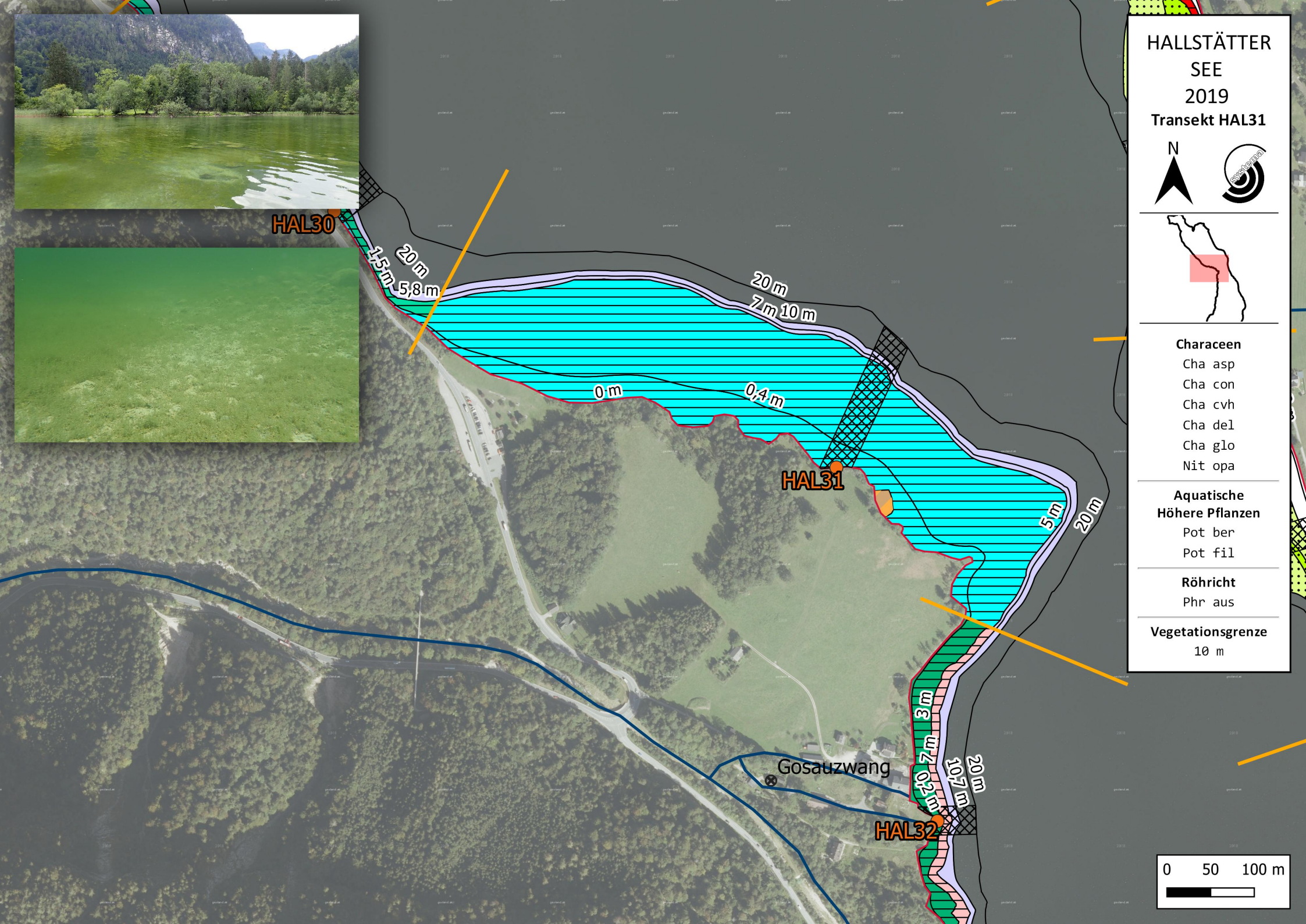
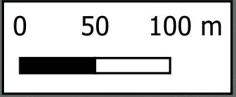
**Aquatische
Höhere Pflanzen**

- Pot ber
- Pot fil

Röhricht

- Phr aus

Vegetationsgrenze
10 m



HAL30

HAL31

HAL32

Gosauzwang

1.5m
20m
5.8m

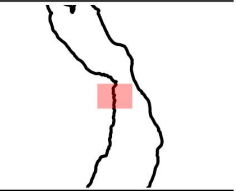
20m
7m
10m

0m
0.4m

5m
20m

3m
7m
10m
107m
20m

HALLSTÄTTER
SEE
2019
Transekt HAL32



Characeen

- Cha con
- Cha del
- Cha glo
- Nit opa

**Aquatische
Höhere Pflanzen**

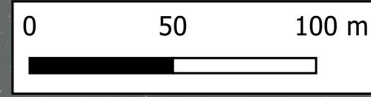
- Elo can
- Myr spi
- Pot ber
- Ran cir
- Ran con

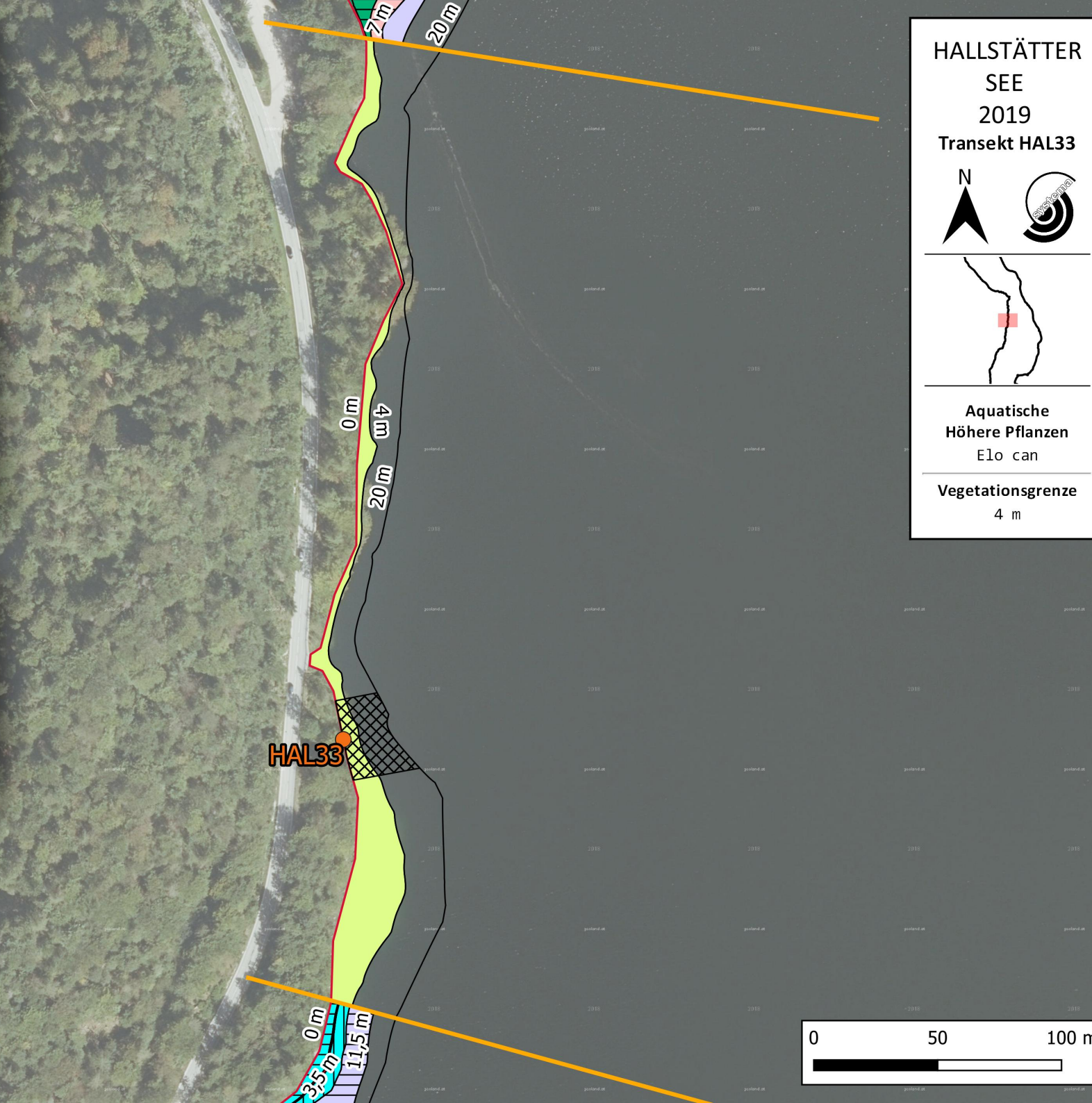
Röhricht

- Car sp
- Pha aru

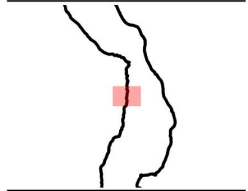
Vegetationsgrenze

10,7 m



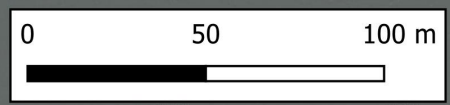


HALLSTÄTTER
SEE
2019
Transekt HAL33



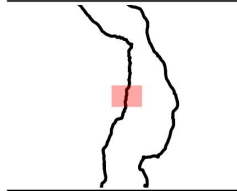
Aquatische
Höhere Pflanzen
Elo can

Vegetationsgrenze
4 m





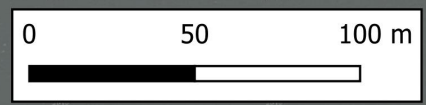
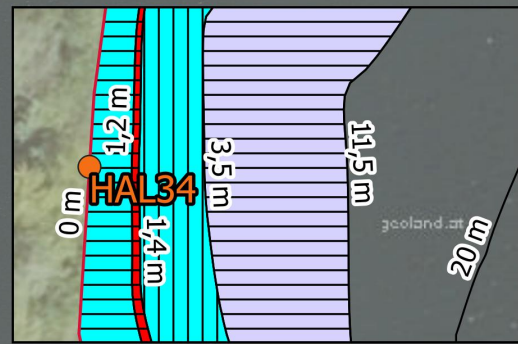
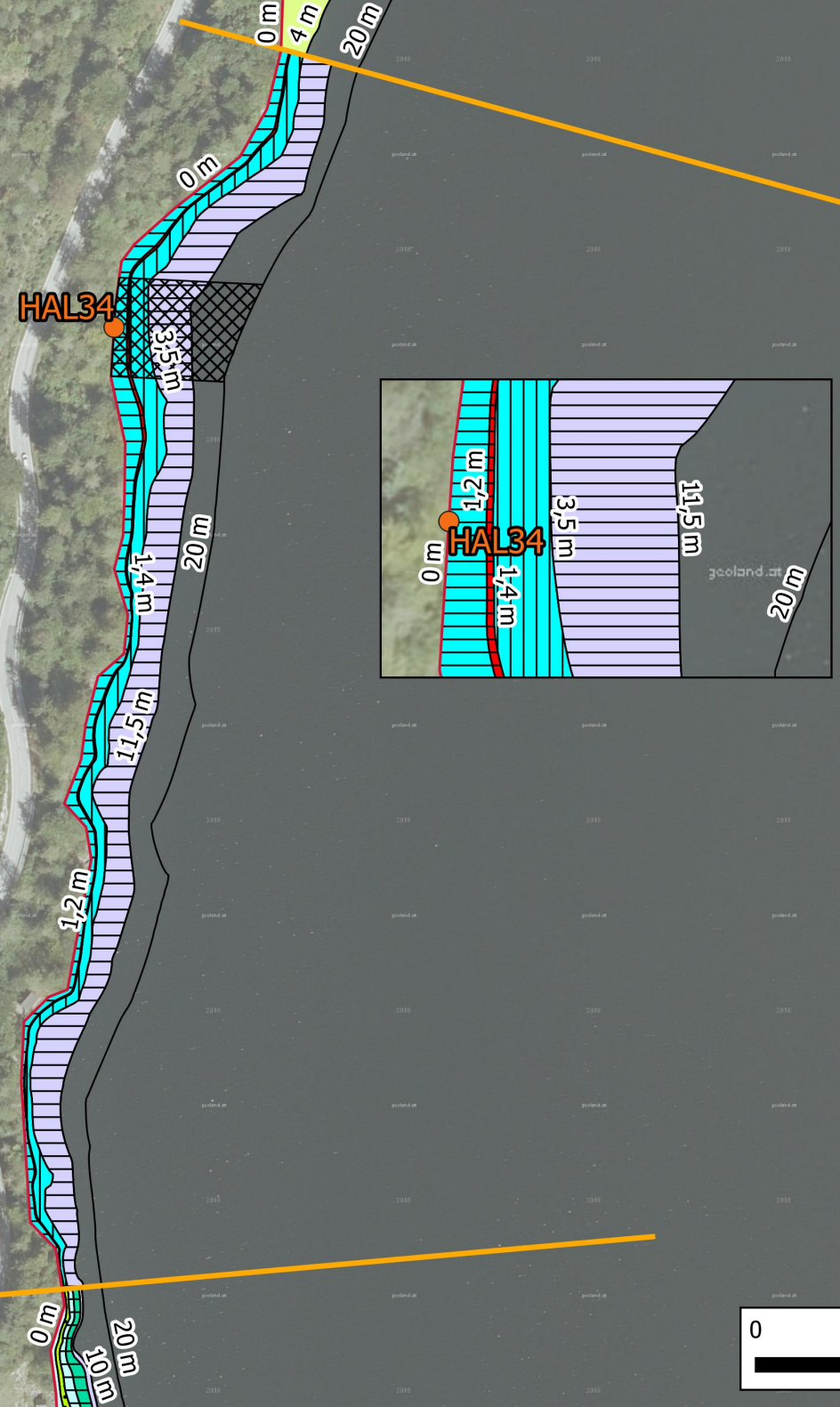
HALLSTÄTTER
SEE
2019
Transekt HAL34



- Characeen**
- Cha asp
 - Cha cvh
 - Cha del
 - Cha glo
 - Nit opa

- Aquatische
Höhere Pflanzen**
- Elo can
 - Myr spi

Vegetationsgrenze
11,5 m





HALLSTÄTTER
SEE
2019
Transekt HAL35



- Characeen**
- Cha asp
 - Cha cvh
 - Cha del
 - Cha glo
 - Cha str

- Aquatische
Höhere Pflanzen**
- Elo can
 - Pot nit
 - Pot per
 - Ran cir
 - Ran con

Vegetationsgrenze
10 m

HAL36

HAL35

HAL35

1,5 m
5,7 m
10 m
0 m
8,6 m
20 m

20 m

10 m

0 m

0 m

1,5 m

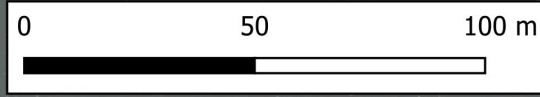
3 m

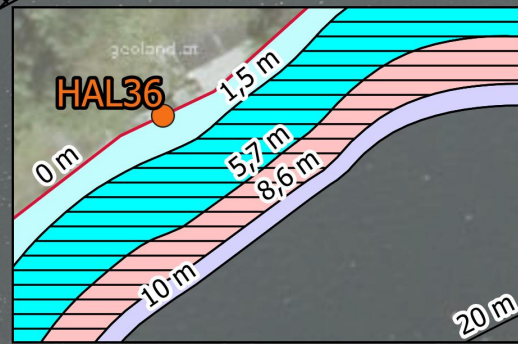
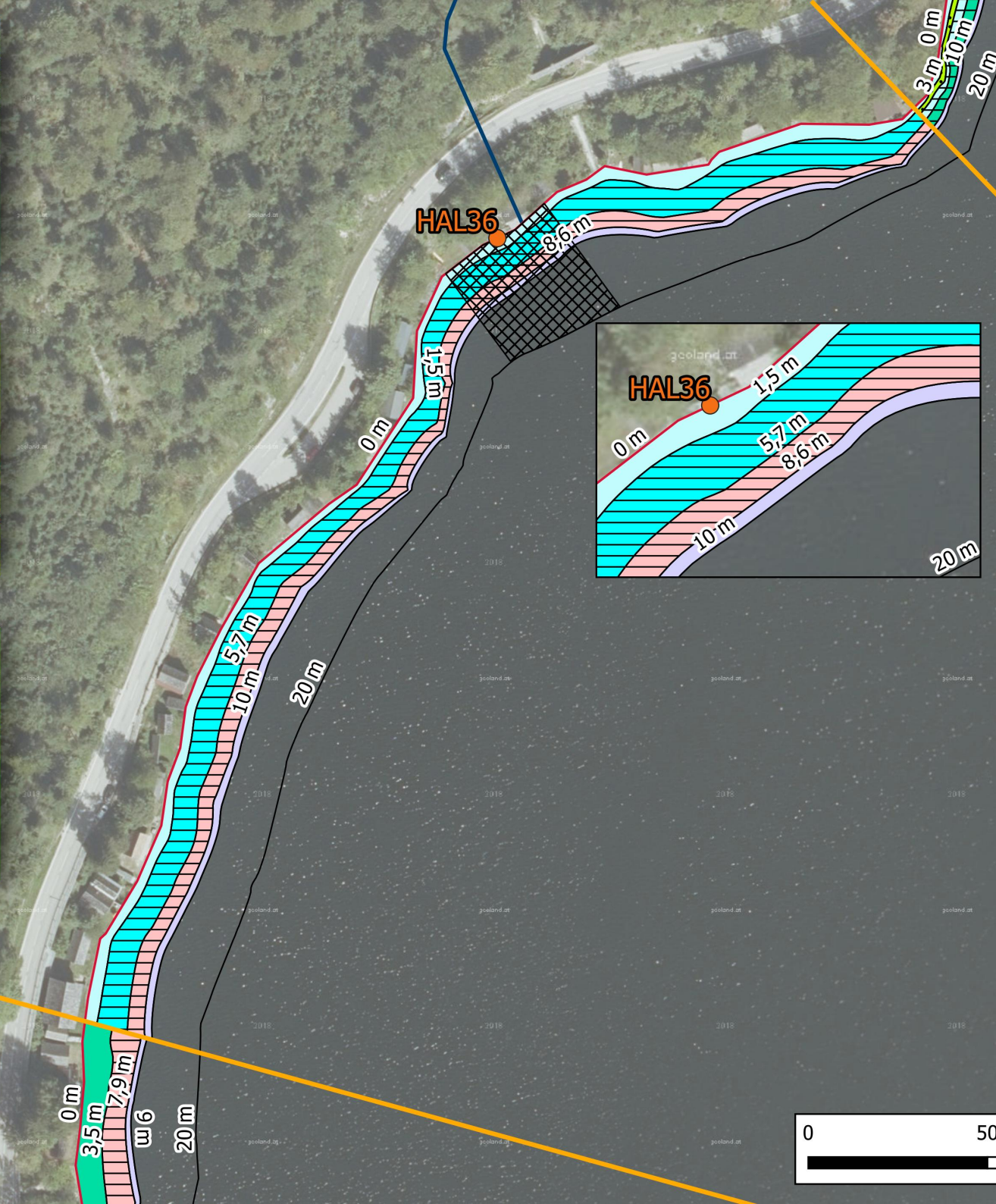
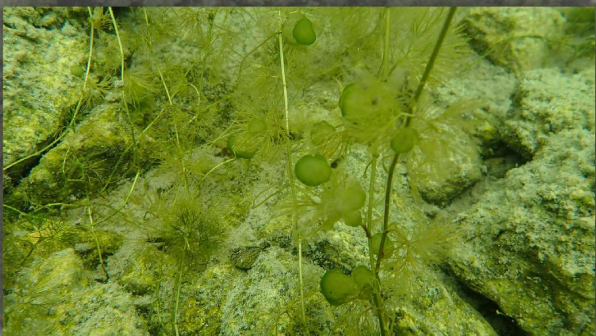
5,5 m

8,6 m

10 m

20 m





**HALLSTÄTTER
SEE
2019
Transekt HAL36**



Characeen

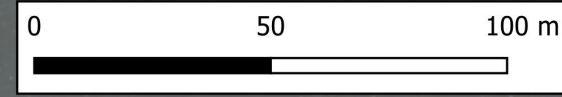
- Cha asp
- Cha cvh
- Cha del
- Cha glo
- Cha str

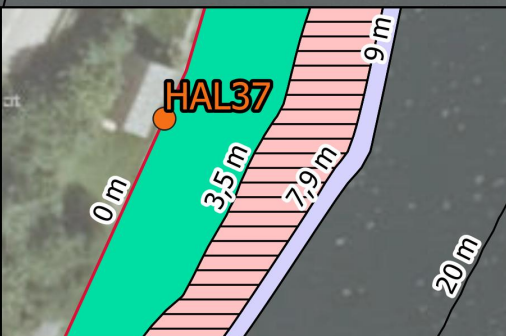
**Aquatische
Höhere Pflanzen**

- Elo can
- Pot ber
- Ran con

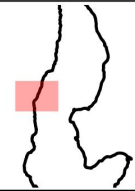
Vegetationsgrenze

10 m





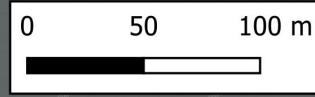
HALLSTÄTTER
SEE
2019
Transekt HAL37



- Characeen**
 Cha cvh
 Cha del
 Cha glo

- Aquatische
Höhere Pflanzen**
 Elo can
 Pot ber

Vegetationsgrenze
9 m



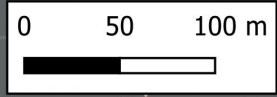
HALLSTÄTTER
SEE
2019
Transekt HAL38



Characeen
Cha del
Cha glo

**Aquatische
Höhere Pflanzen**
Elo can
Pot ber

Vegetationsgrenze
8 m



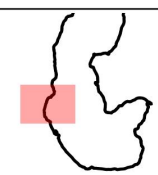


Salzberg

Hallstatt

HAL39

HALLSTÄTTER
SEE
2019
Transekt HAL39



Aquatische
Höhere Pflanzen
Elo can
Pot pec
Vegetationsgrenze
6 m

