www.uschovna.cz/en/zasilka/OAKYW5JI4NTCRW42-AWH

Artificial Catchment Falcon

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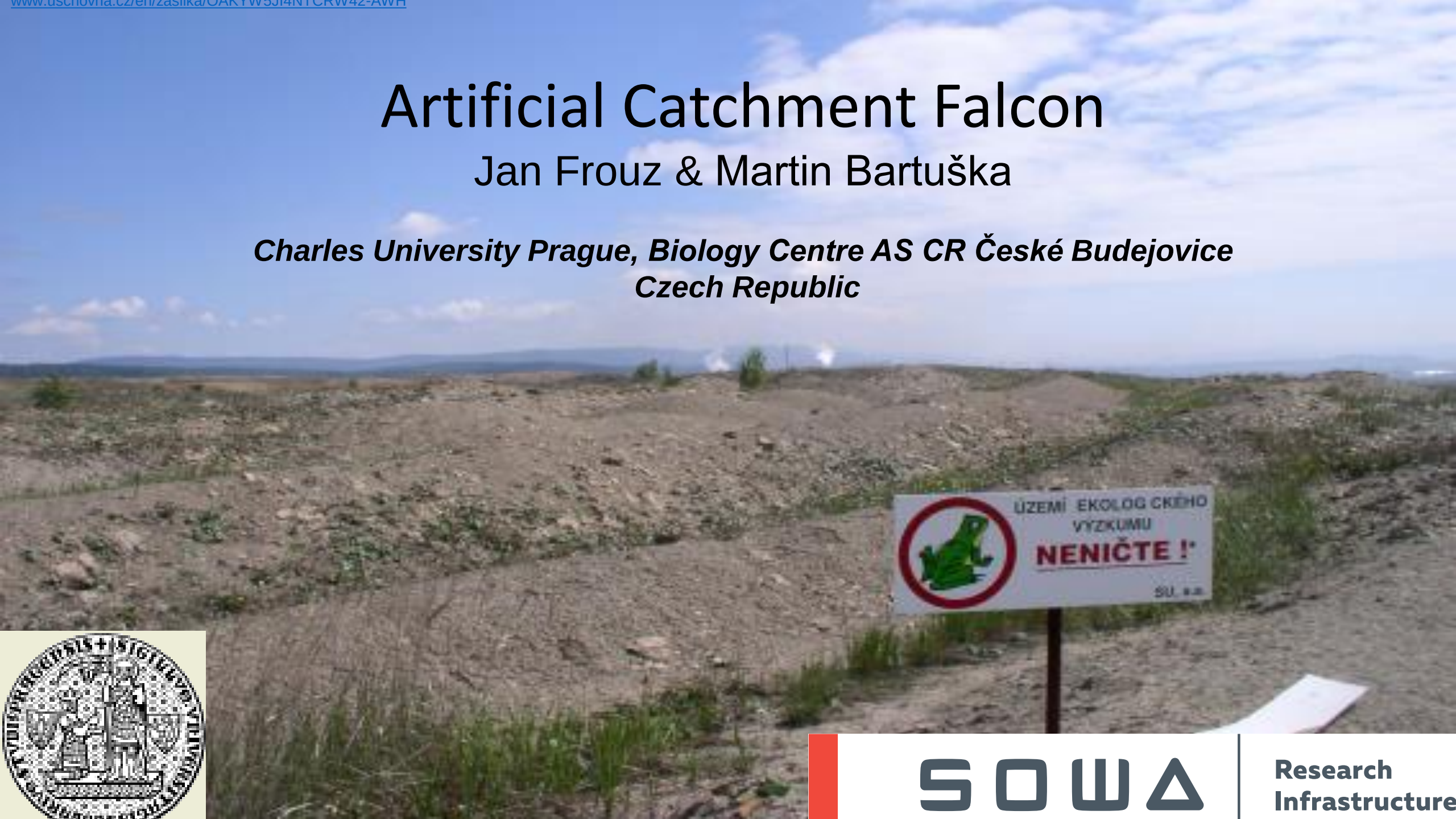
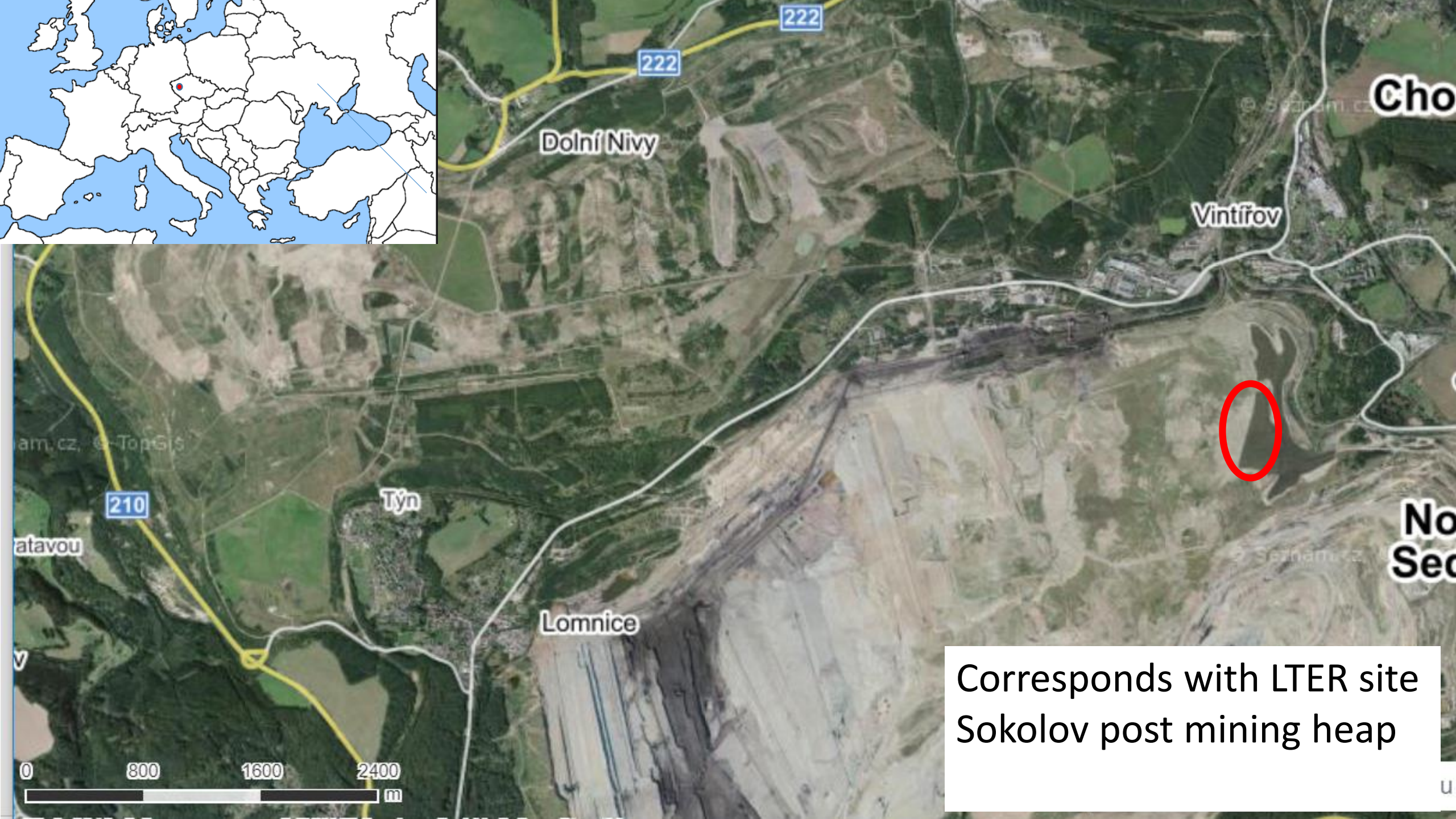
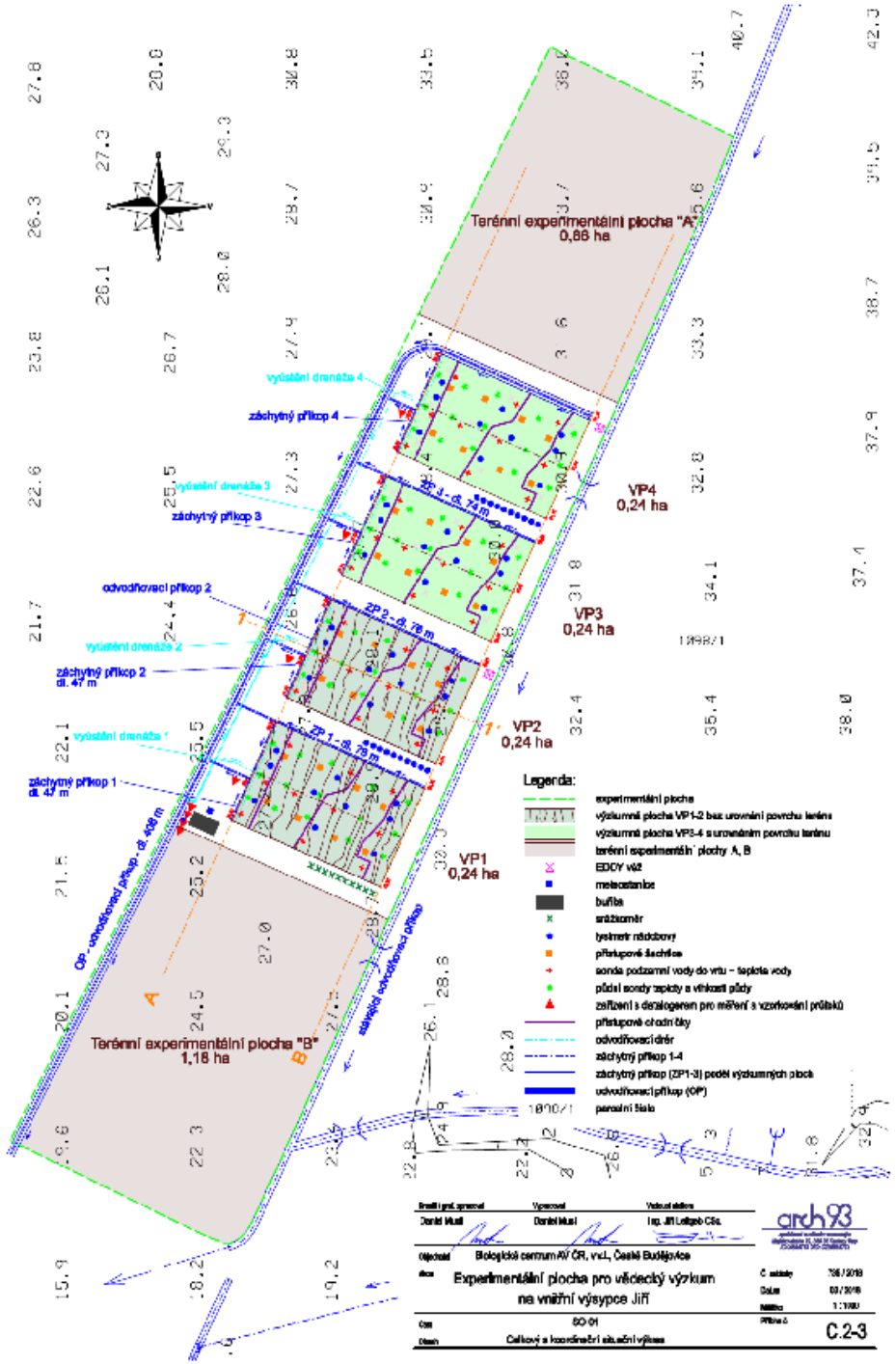


SOWA Research Infrastructure



Corresponds with LTER site Sokolov post mining heap



Artificial catchment will consist from four separate catchment each with area 0.25 ha

Each 0.25ha catchment is sealed by clay (clay layer is 1.8m deep)

Two of these catchment will mimic reclaimed sites and two unreclaimed sites

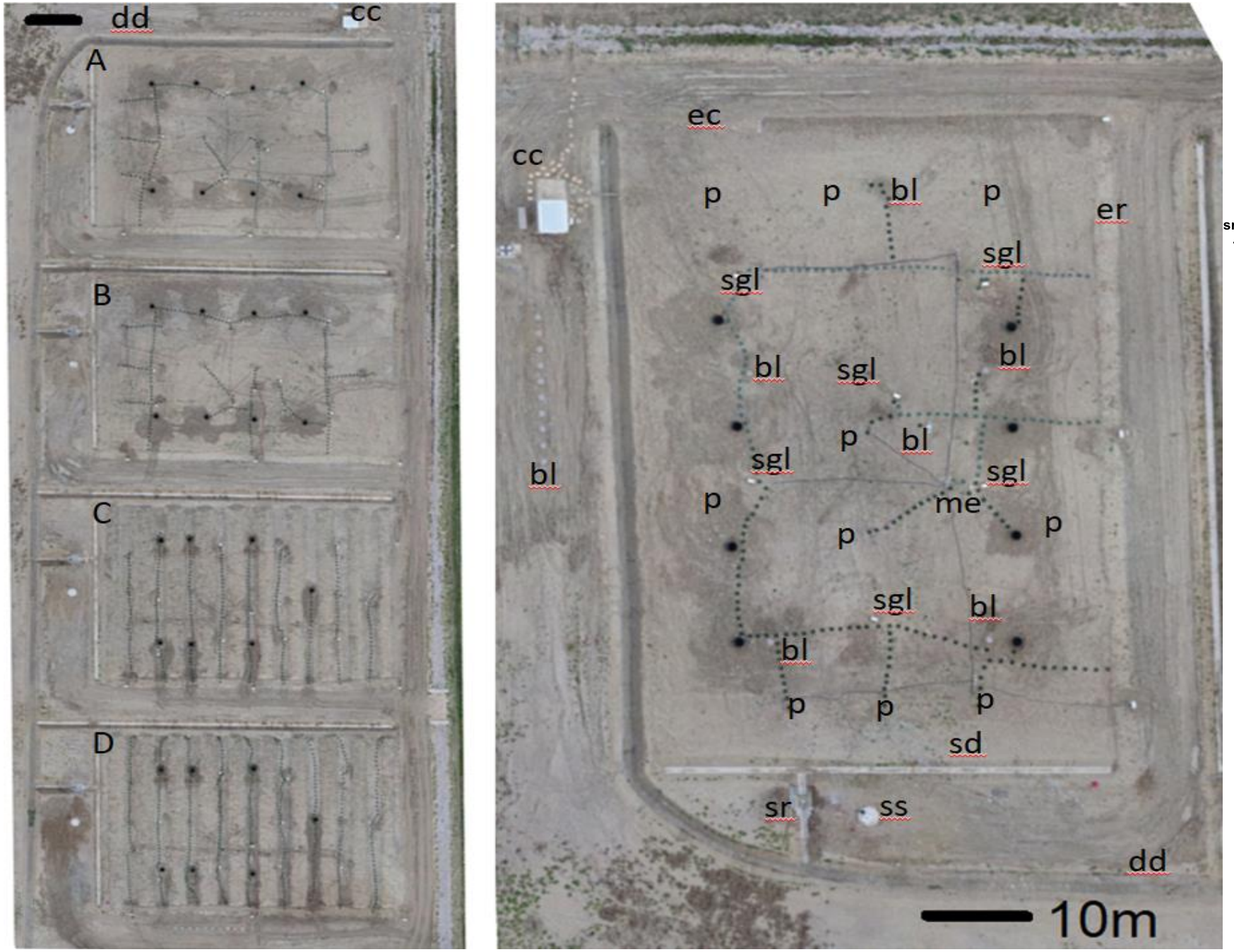
In each catchment we will measure surface run off and sub surface run off

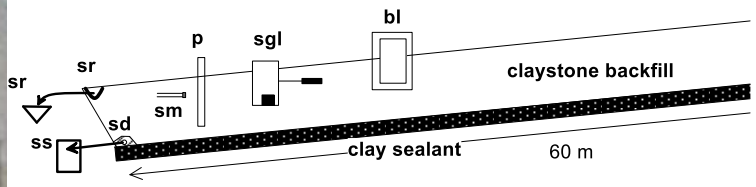
We will sample run off water as well as rain water coming in

HAMM
3515

KOMATSU

GALEO





–Setup of four micro-catchments, A and B flattened, C and D undulated (left), detailed view of sampling setup at each micro-catchment (right). Legend: bl-bucket lysimeters, cc-computer center, dd-drainage ditch, ec-eddy covariance tower, me-meteostation, p-pipe for water table measurement, sgl-suction cap and gravitation lysimeter, sr-surface runoff, ss-subsurface runoff.

Instrumentation

Surface runoff + water samples	one per chatment
subsurface runoff + water samples	one per chatment
subsurface water level and temperature	10 per catchment
soil moisure and temperature in 20 and 80cm	10 per catchment
observation shachts	7 per chatchment
vacuum ceramic caps	5 per chatchment
percolation lysimeters	6 per chatchment
Bucked lysimeters	10 per chatchment
global radiation	one per two chatchments
meteostation	one per chatment
raifal collector	10 per catchment
Eddy tower	one per two chatchments
soil respiration multiplexor	one per two chatchments

Thank you for your attention