

# GLOBAL SYMPOSIUM ON SALT-AFFECTED SOILS

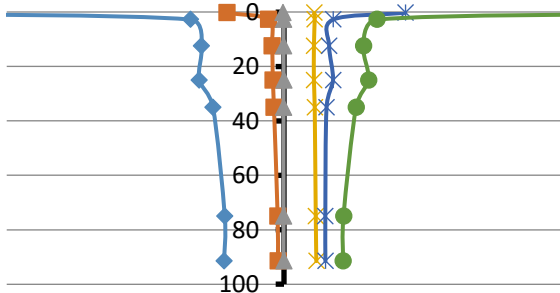
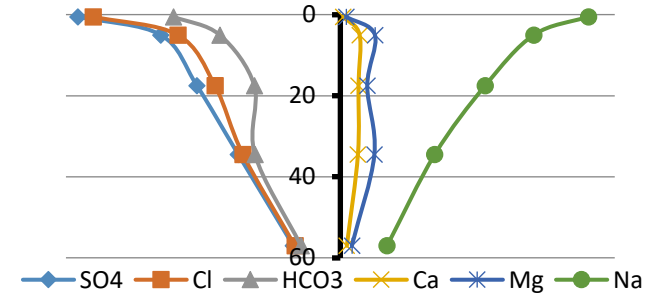
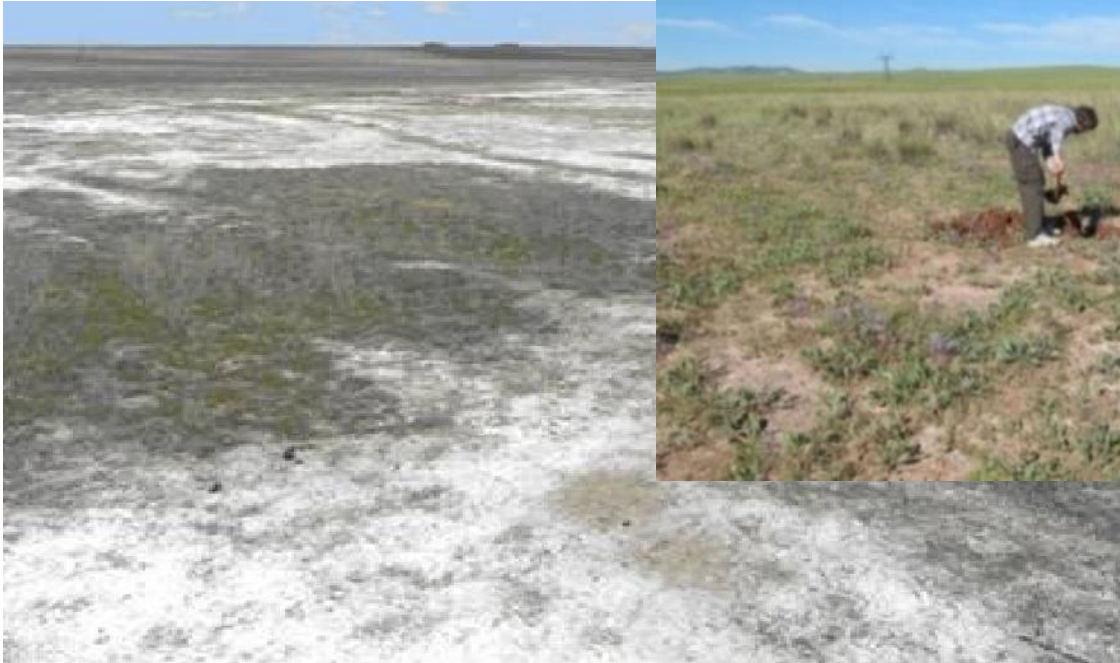
20 - 22  
October, 2021  
Virtual meeting

Assessment of the State of Soil  
Salinity for Analysis of  
Geochemical Stability of  
Landscapes in Dry Areas

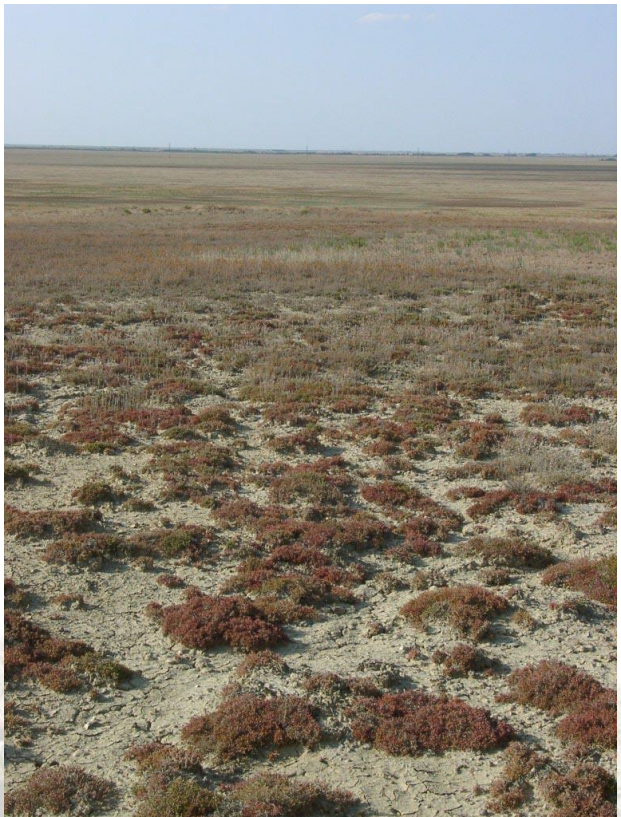
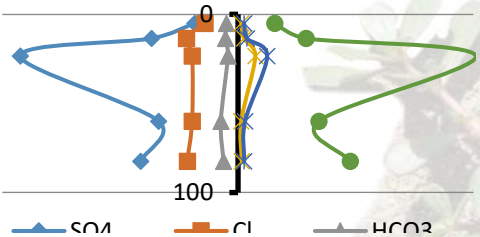
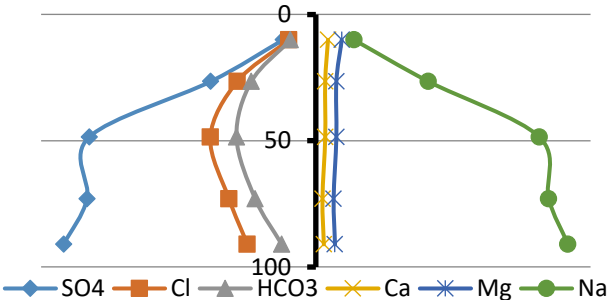
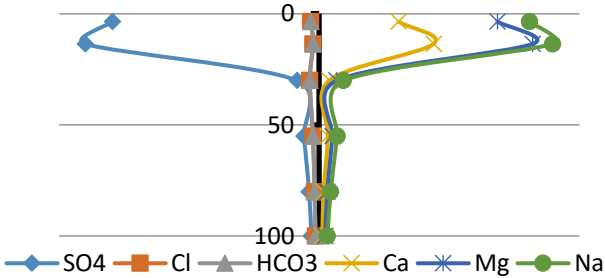
German Kust, Olga Andreeva



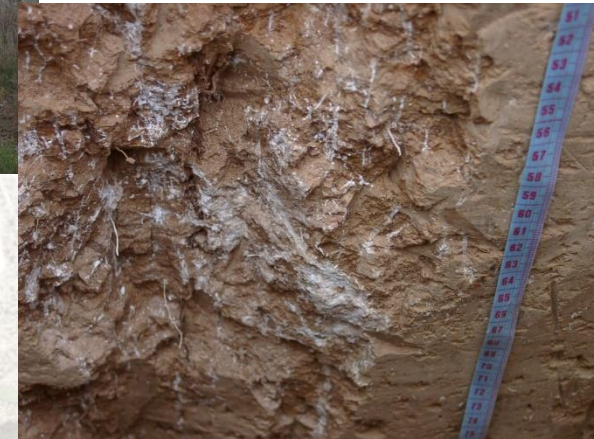
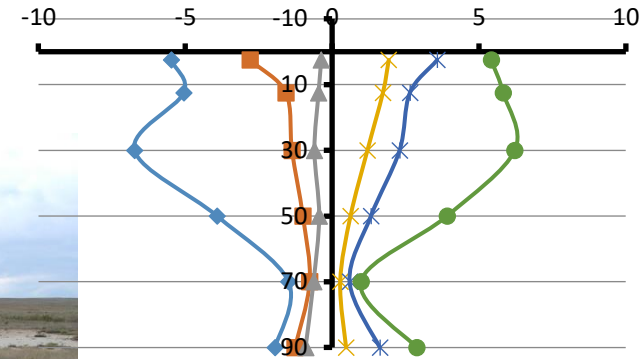
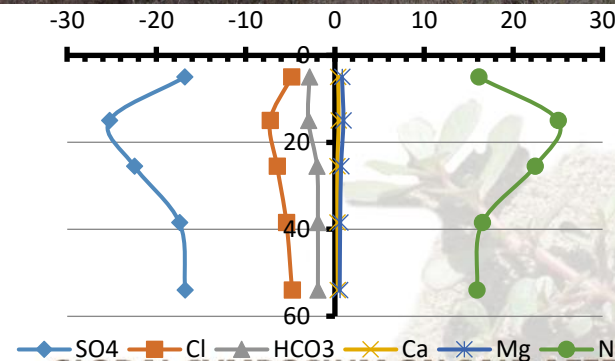
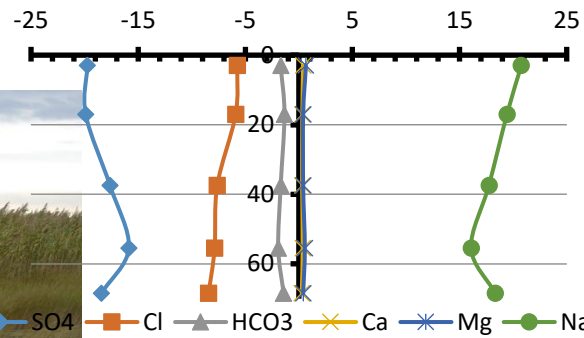
# Variety of manifestations of saline soils in landscape: saline elevations



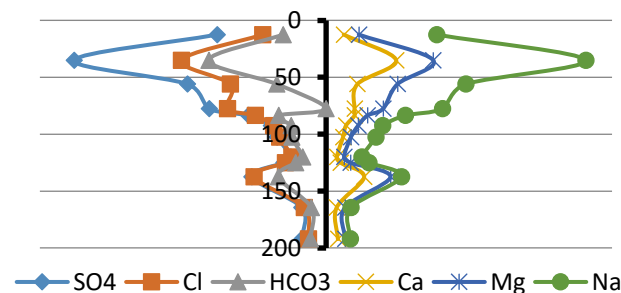
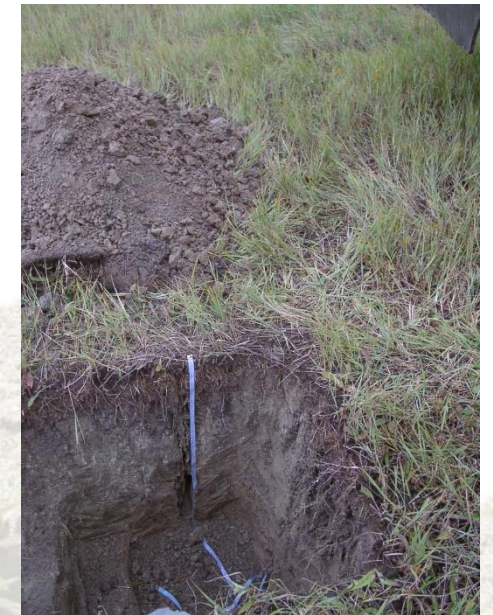
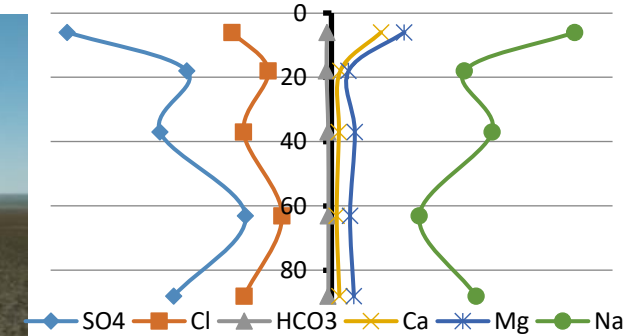
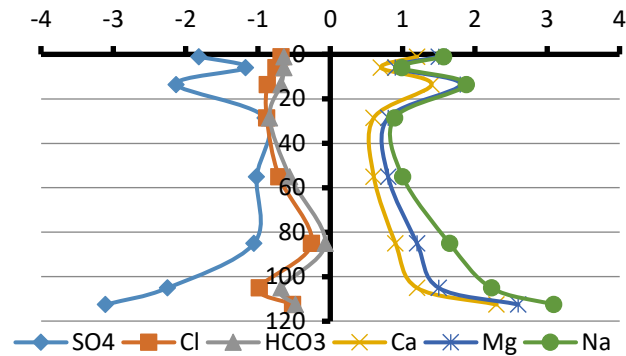
# Variety of manifestations of saline soils in landscape: saline depressions



# Variety of manifestations of saline soils in landscape: drained elevations and depression but saline slopes

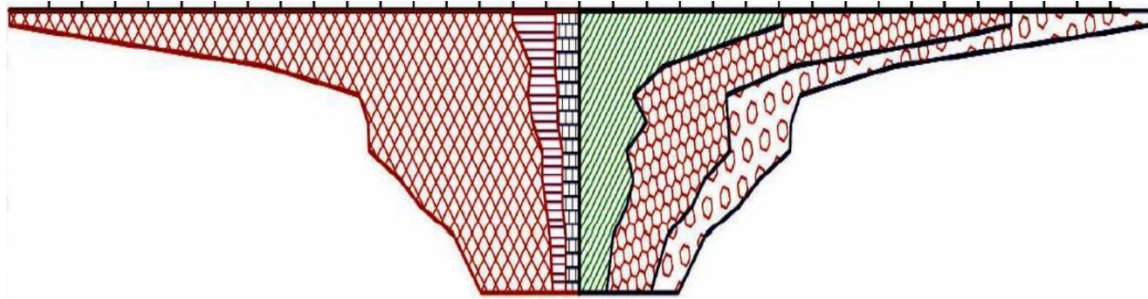


# Variety of manifestations of saline soils in landscape: several salt maximums in soil profile

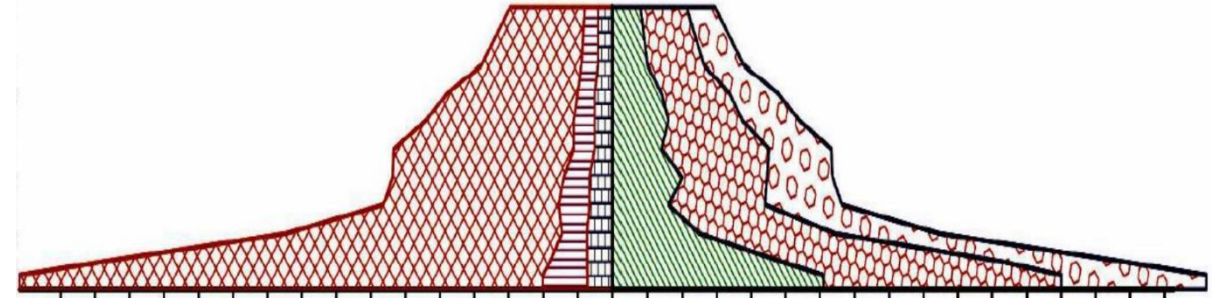


# Working hypothesis: All saline soils are unstable, aren't they?

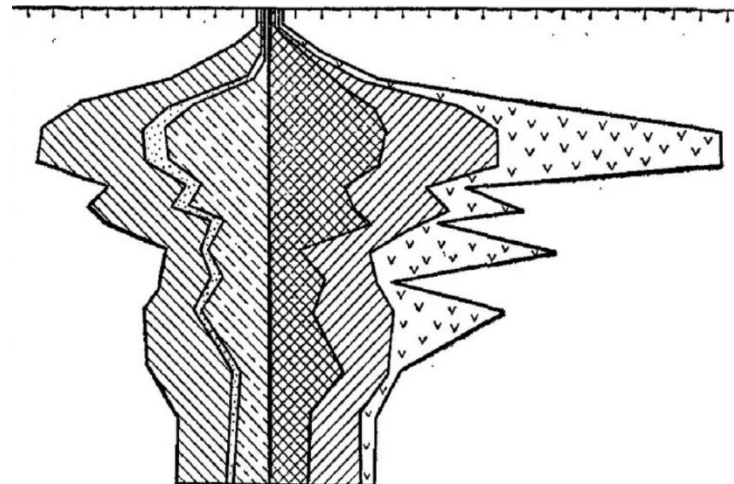
Salinization



Desalinization

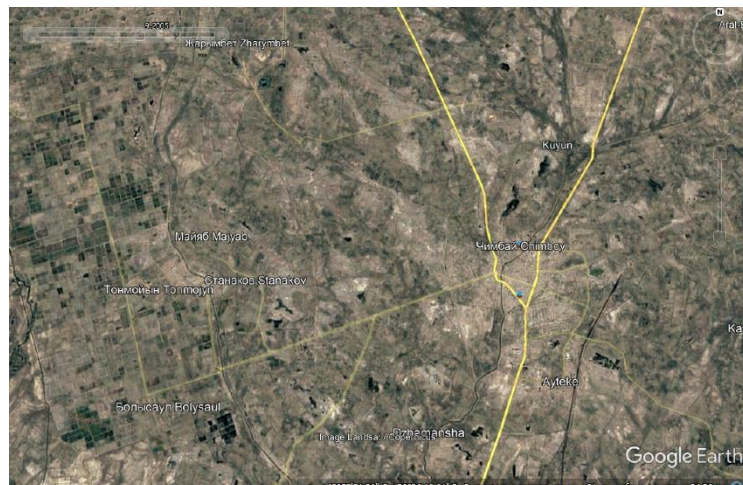


Irregular

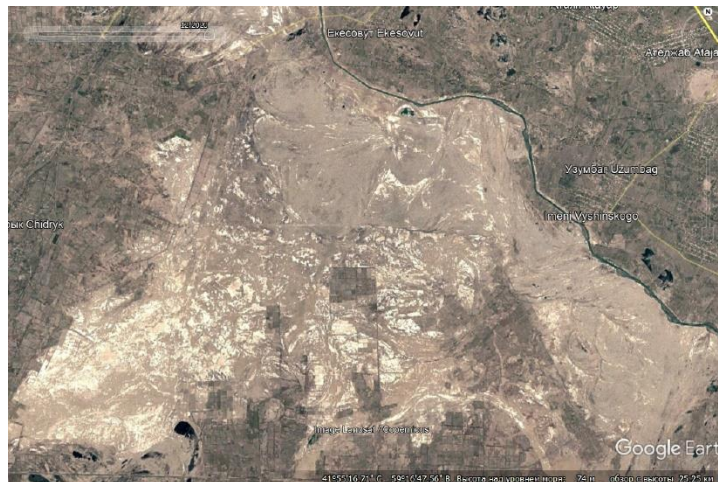


# But what about saline landscapes?

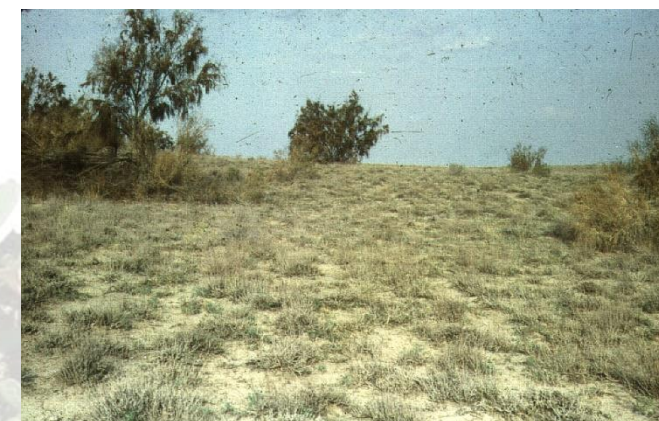
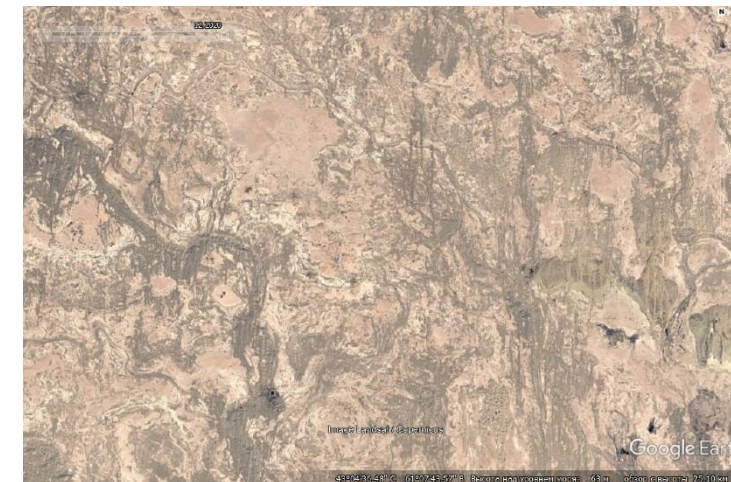
Recent desertification, arable zone



Abandoned agricultural lands



Ancient dried deltaic landscape



# But what about saline landscapes?



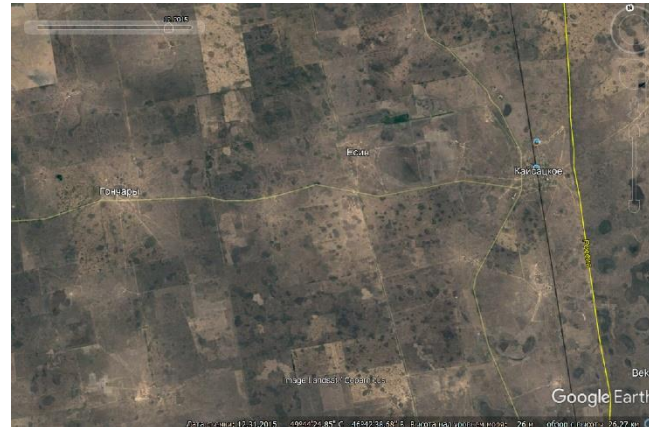
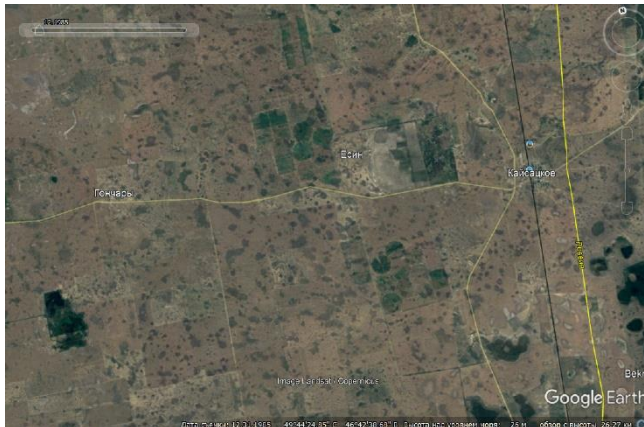
1985



2015



Natural



Agrarian



# Geochemical stability of saline landscapes (general scheme)

	Geochemically stable	Geochemically unstable	
		Salinization	Desalinization
<b>Meso-relief</b>			
Elevations	Drained; Profile of desalinization	Drained/ <i>Saline; Profile of salinization or irregular</i>	Drained; Profile of desalinization
Slopes	Drained; Profile of desalinization	Drained/Saline; Profile of salinization or irregular	Drained/Saline; Profile of desalinization or irregular
Depressions	Drained/Saline; Irregular profile	Saline, <i>Profile of salinization</i>	Drained/Saline; Profile of desalinization or irregular
<b>Micro-relief</b>			
Elevations	Saline, Profile of salinization	Saline, Profile of salinization	<i>Drained; Profile of desalinization</i>
Slopes	Drained/Saline; Irregular profile	Saline, Profile of salinization or irregular	Drained; Profile of desalinization
Depressions	Drained, Profile of desalinization	<i>Saline, Profile of salinization or irregular</i>	Drained; Profile of desalinization

*Italic – sufficient indicators*



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