

Variations climate of East-European Plain and Caspian sea level during last 20000 years (on the basis of numercial simulations within the PMIP II)



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Sea level change

$$\Delta h = (\Delta h)_Y + (\Delta h)_F + (\Delta h)_e$$

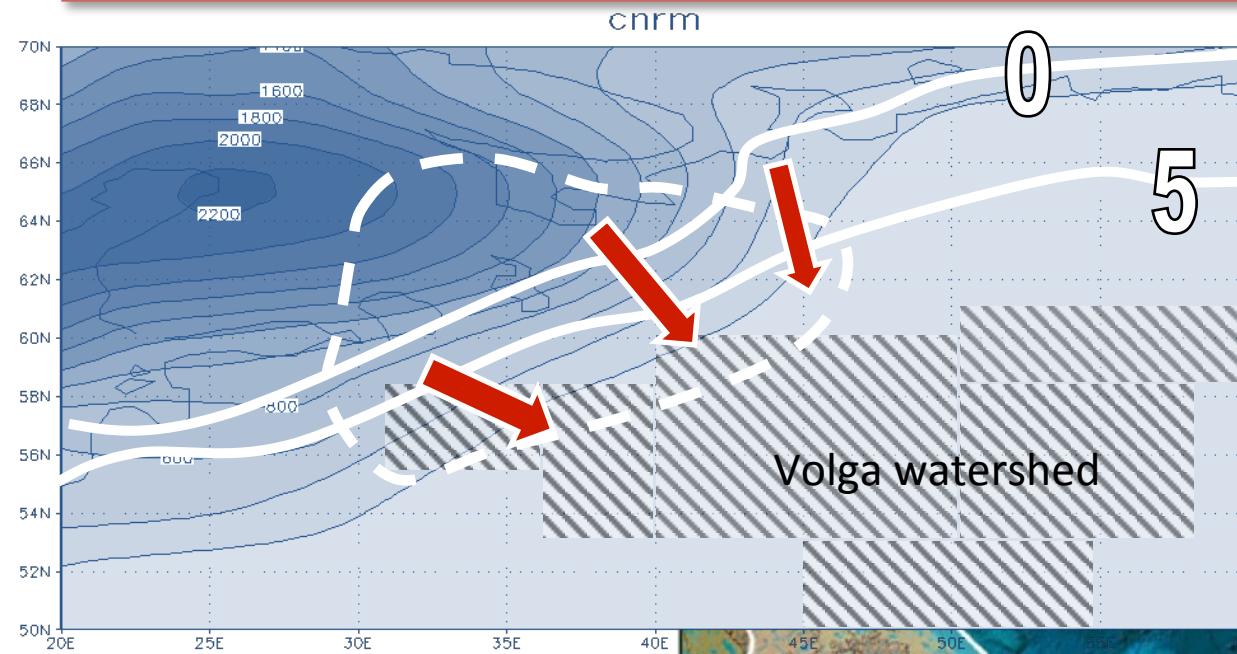
Δh total change

$(\Delta h)_Y$ rivers runoff change

$(\Delta h)_e$ evaporation from the lake surface change

$(\Delta h)_F$ morphometric change (constant during 20000 years, equivalent zero)

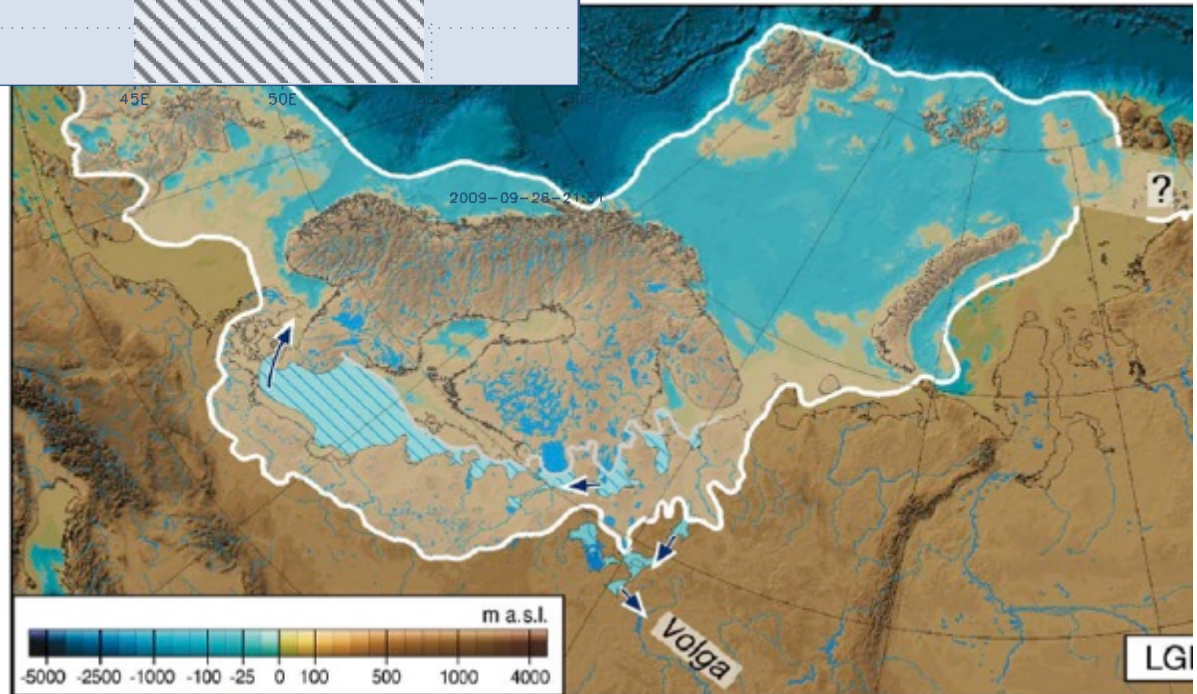
Scandinavian ice sheet



model data
CNRM

GrADS: COLA/IGES

paleoreconstruction
project QUEEN
(Quaternary
Environment of the
Eurasian North)



Volga's runoff and Caspian sea level

Period	"climatic" component of runoff, km ³ /year	"glacier" component of runoff, km ³ /year	total runoff, km ³ /year	changes in the sea level compared with modern, m
modern climate	205	0	205	0
LGM	78	384	462	+48

"The past may be key to the present and the future ..."

Thanks for attention!

Questions?

