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/Kunstkamera/ Rus.Acad.Sci.*)

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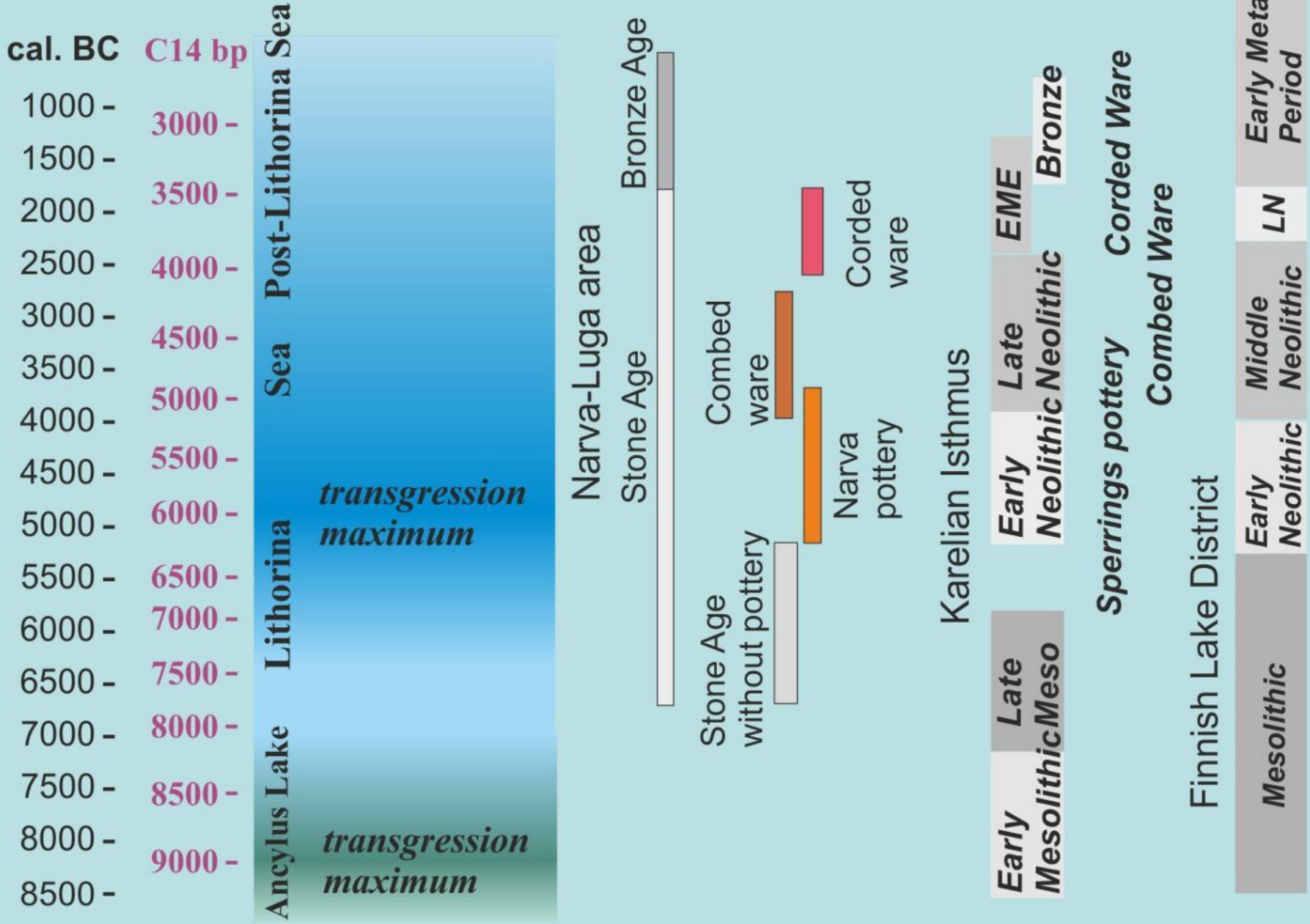
**Kerkko Nordqvist** (*University of Helsinki*)

**Margarita Kholkina** (*St.-Petersburg State University, A.P.Karpinsky Russian  
Geological Research Institute*)

# Cross-Gulf cooperation in the Stone Age study: new results, continuing projects and research perspectives



# 150 years of study - different archaeological periodizations and typological nomenclature





# Karelian Isthmus and North-West Ladoga

1998-2007

MAE (Kunstkamera) Rus.Acad.Sci.

Inst. Hist. Material Culture Rus.Acad.Sci.

University of Helsinki

National Board of Antiquities, Finland

Lahti Historical Museum, Finland

**our  
knowledge on  
the Stone Age  
transformed  
and expanded  
a lot in the  
last 20 years**

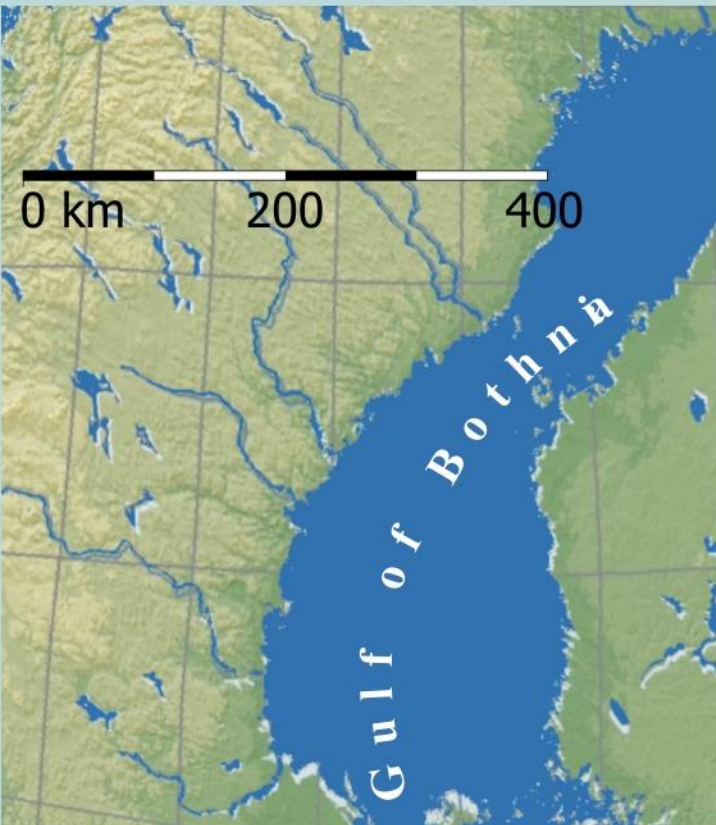
**Narva-Luga area – 2005 – 2018**

University of Tartu

MAE (Kunstkamera) Rus.Acad.Sci.

Inst. Hist. Material Culture Rus.Acad.Sci.

University of Helsinki



**a new stage of the Stone Age  
research in the region**

- *trilateral cooperation*
- *shared fix points*
- *developing of common methodology*





# Interdisciplinary studies:

**AMS dating:**

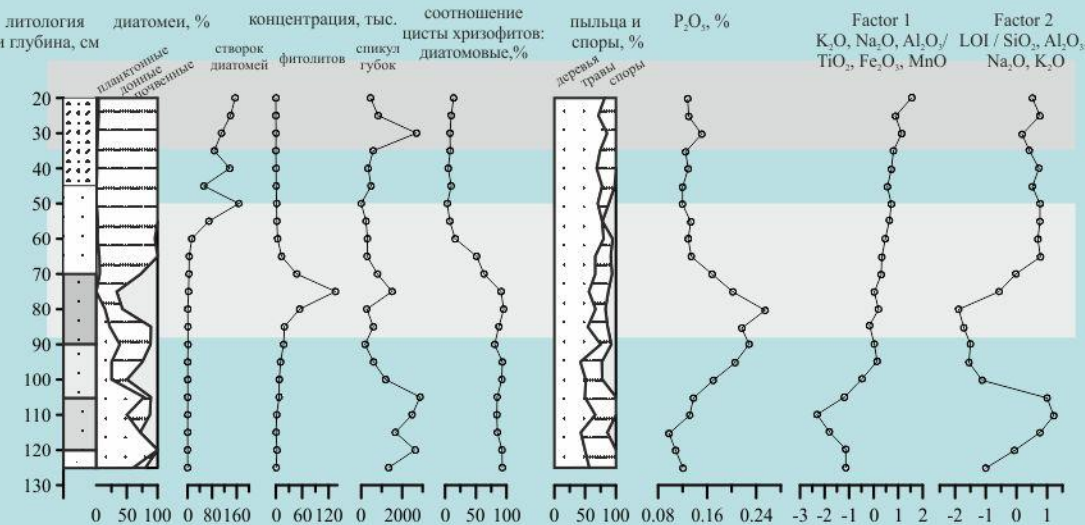
Karelian Isthmus - 69 dates;  
Narva-Luga area – 29 dates

**palaeozoological studies**

**granulometry**  
**mineralogy**  
**geochemistry**  
**palinology**  
**diatom analysis**



**palaeogeographical studies of the sites' surrounding**



# developing shoreline chronology in relation with coastal Stone Age sites location



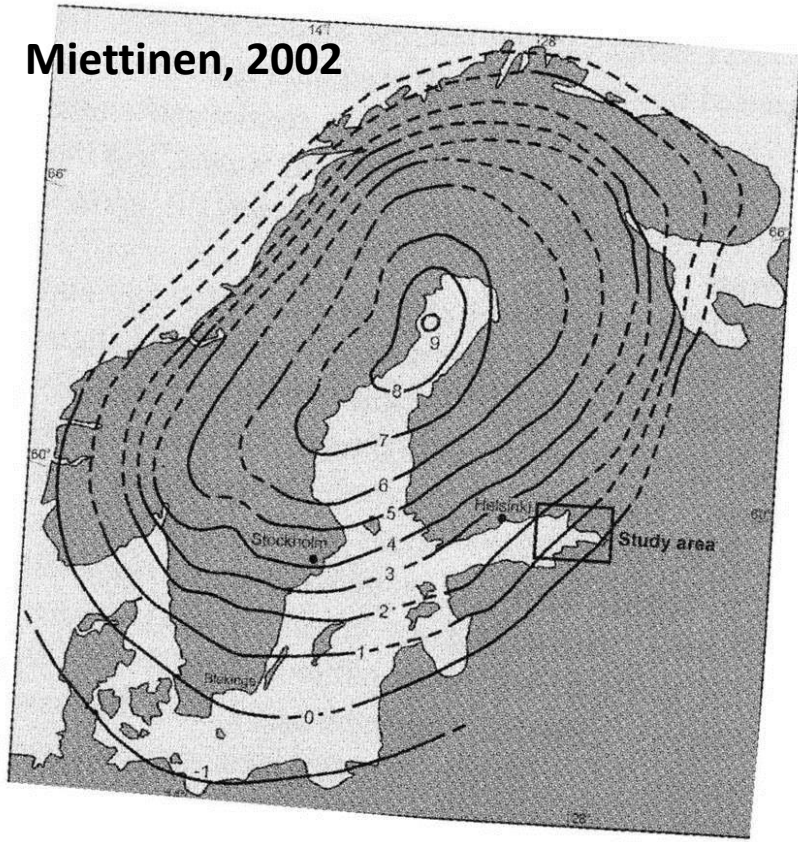
**Ari P. Siiriäinen  
(1939-2004)**



**Vladimir I. Timofeev  
(1947-2004)**



Miettinen, 2002



lake and bog sediments - lowest limit  
coastal Stone Age sites - upper limit

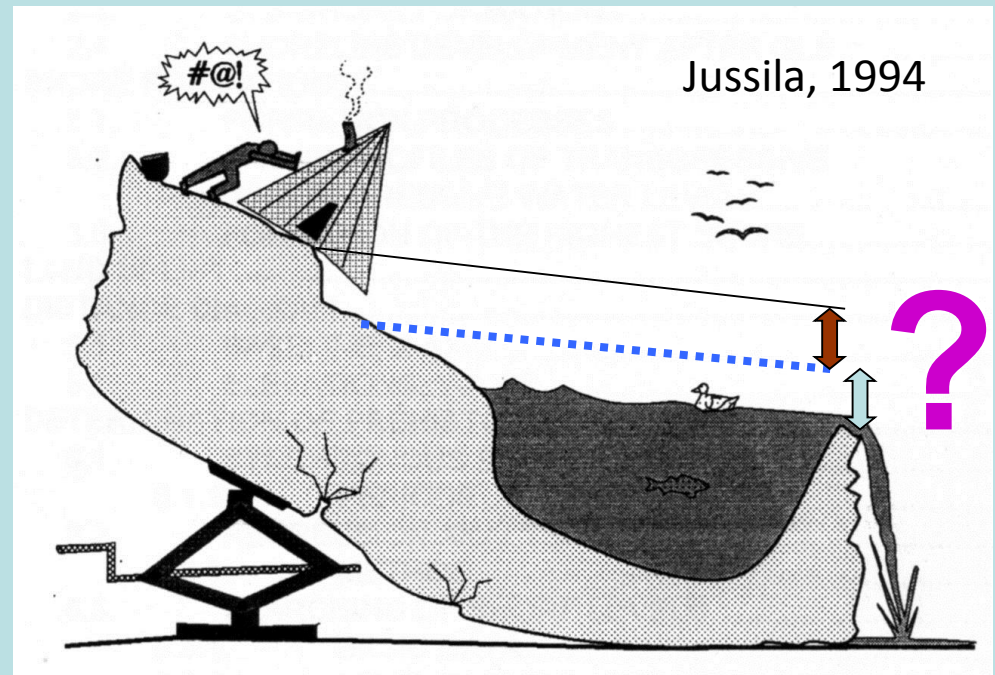
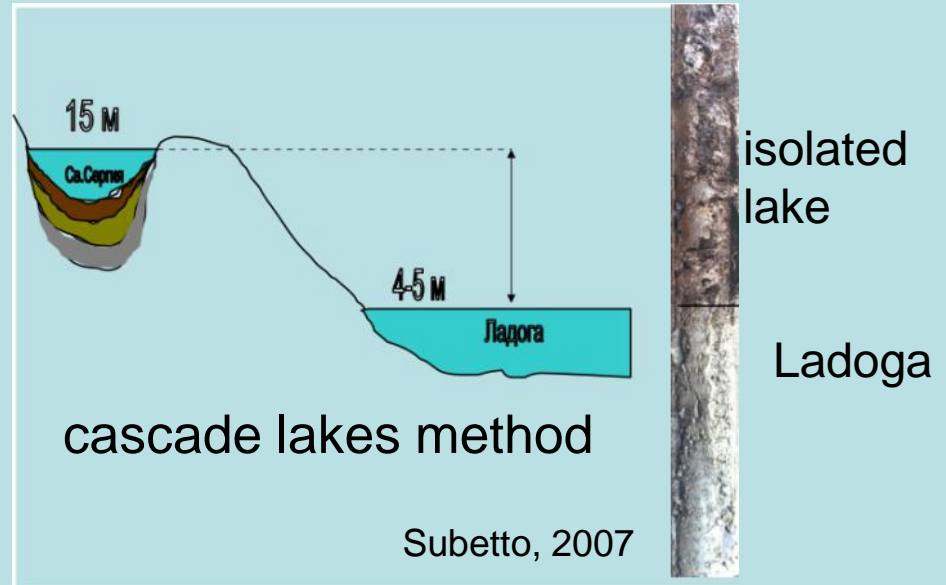
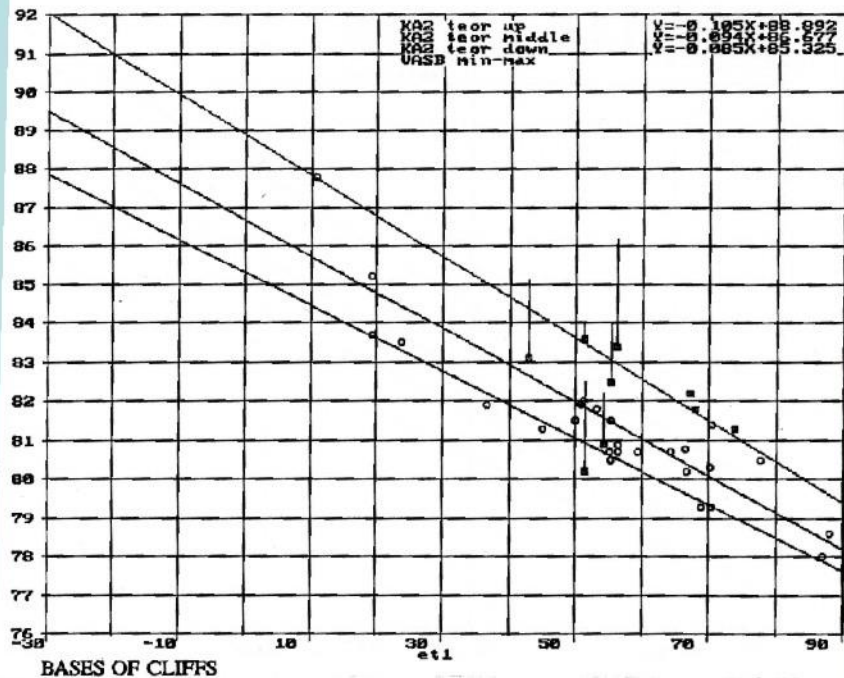


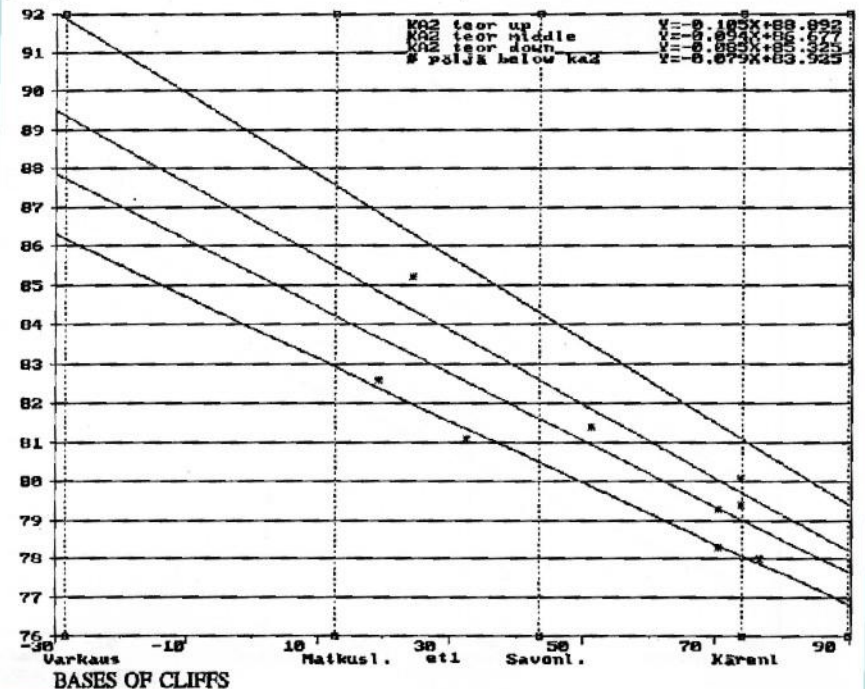
Diagram 3. VASB AND KA2 SITES. VASB sites are with min-max line or rectangle point.



# Ancient Lake Saimaa project 1992-1996

## Elevation chronology

Diagram 4. PÖLJÄ AND KIERIKKI SITES AND NEOLITHIC "DUMMY" GRADIENTS

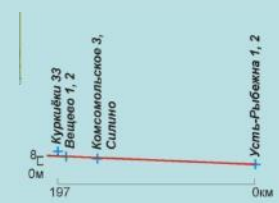
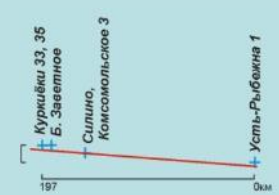
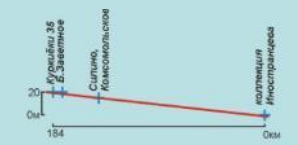
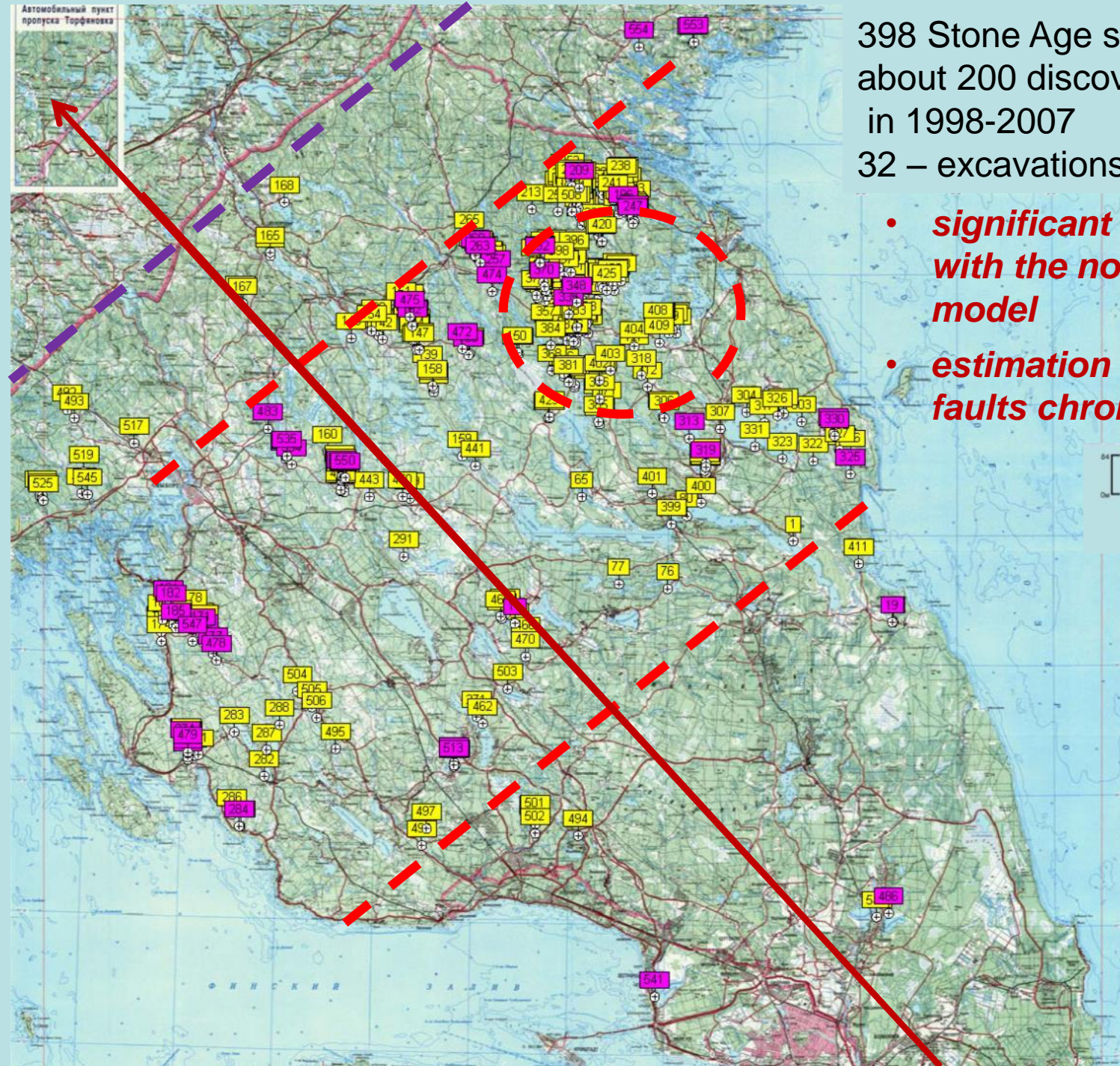




Автомобильный пункт  
пропуска Торфяновка

398 Stone Age sites:  
about 200 discovered  
in 1998-2007  
32 – excavations of different scale

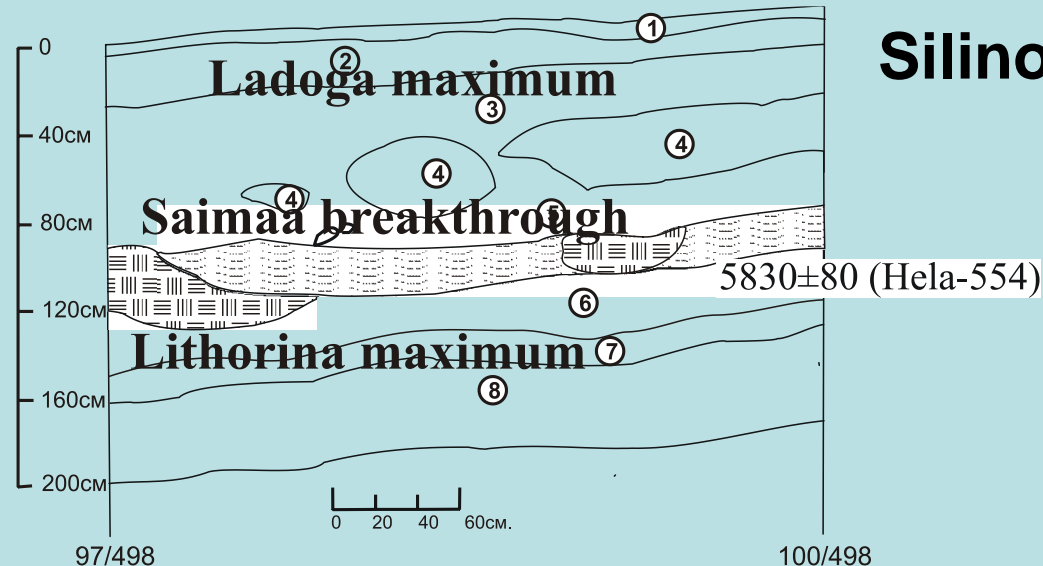
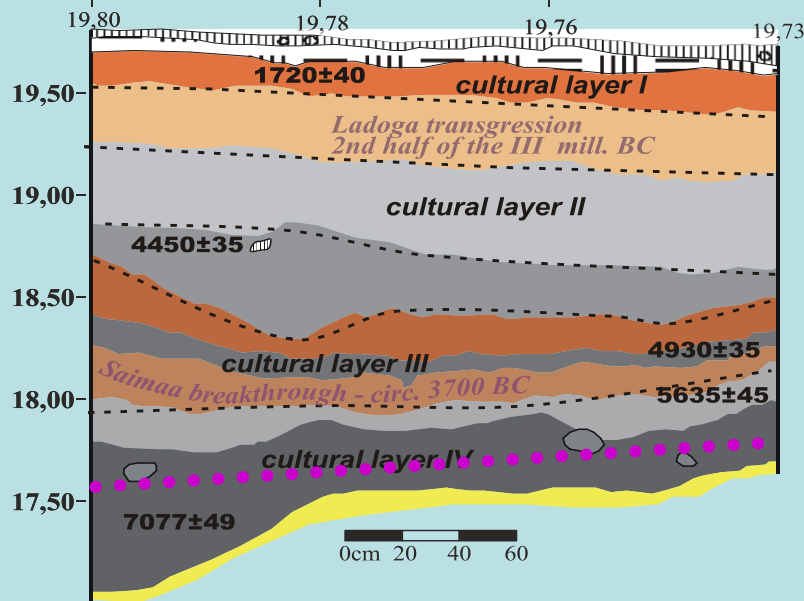
- *significant discrepancies with the normal gradient model*
- *estimation of the tectonic faults chronology*





# Multilayer sites – archives of cultural and natural events with well-defined chronology

## Komsomolskoye 3 (Pyhajärvi Kunnianiemi 1)



## Silino (Muola)

## Okhta 1

- *presents a full sequence of cultural contexts for about 6 thousand years of the history of the Gulf of Finland region*
- *one of the most important archaeological discoveries for the beginning of the 21 cent.*



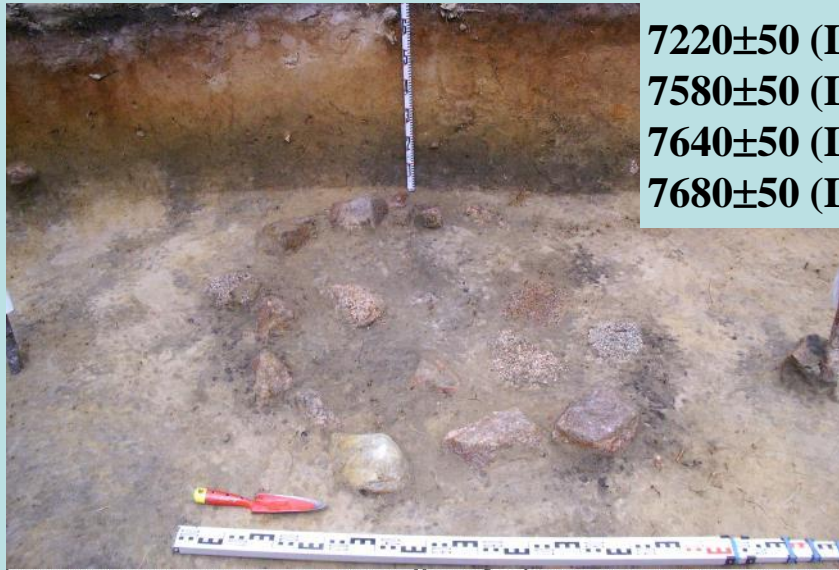
Okhta 1 - 2m asl

По: Сорокин П.Е., Гусенцова Т.М., Глухов В.О., Екимова А.А., Кулькова М.Н., Мокрушин В.П. Некоторые результаты изучения поселения Охта-1 в Санкт-Петербурге: Эпоха неолита – раннего металла // Археологическое наследие Санкт-Петербурга. - СПб., 2009. - Вып. 3.

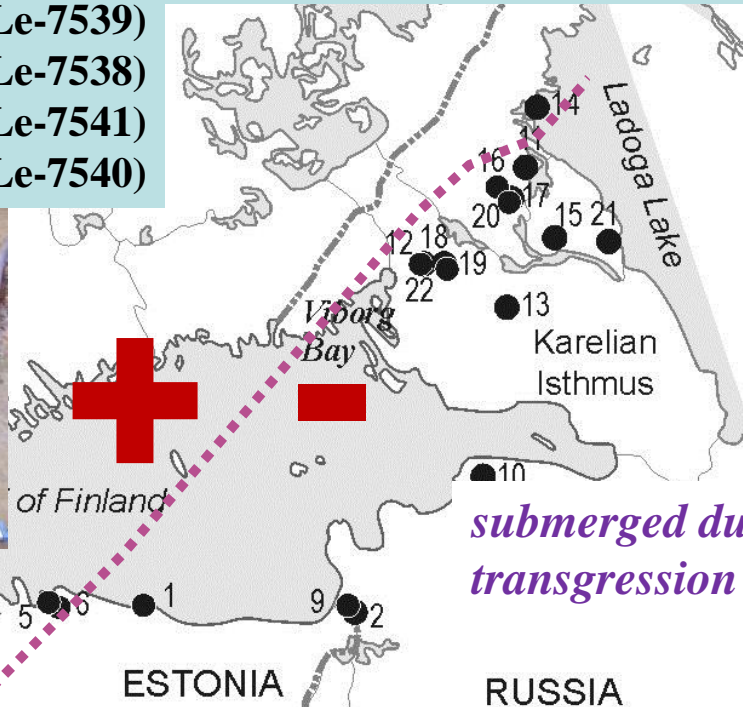


# Ozernoye 3 - 6450-6380 cal. BC

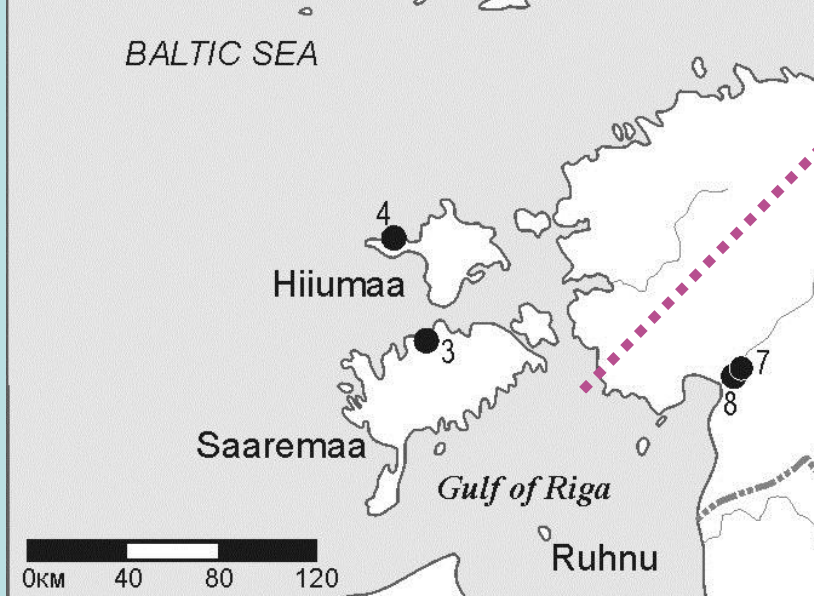
## Isostatic vs Eustatic land uplift



7220±50 (Le-7539)  
7580±50 (Le-7538)  
7640±50 (Le-7541)  
7680±50 (Le-7540)



*submerged during the transgression culmination*



### Sindi-Lodja II

6900 cal. BC (8035±80, Ta-2769)



Mattunud kultuurkiht Sindi-Lodja II asulakohal, suvi 2001

*all the coastal sites older than the Lithorina maximum were submerged – and versa*



5 500 cal. BC (6 500 bc):  
Lithorina maximum =  
Mesolithic/Neolithic border?

Ladoga lake

- *no use of pottery before the Lithorina maximum*
- *simultaneous appearance of two totally different pottery traditions*
- *all the coastal sites without pottery are covered by Lithorina sediments*
- *there are no sites with pottery under Lithorina sediments*

Sperrings pottery



Gulf of Finland

St.-Petersburg



Narva pottery



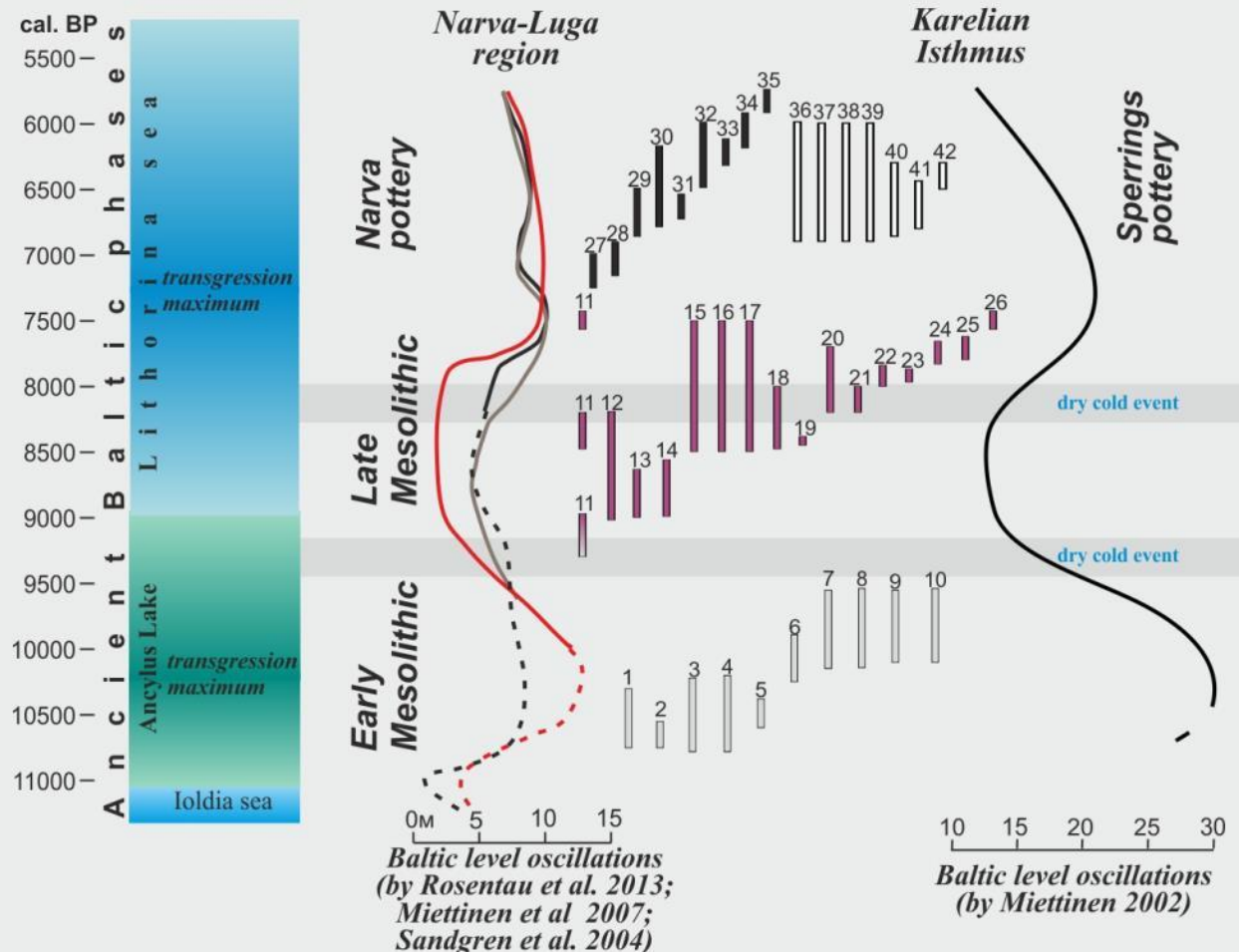
- **obvious correlations between cultural transformations and environmental changes**
- **no cultural response to the 8 200 event**

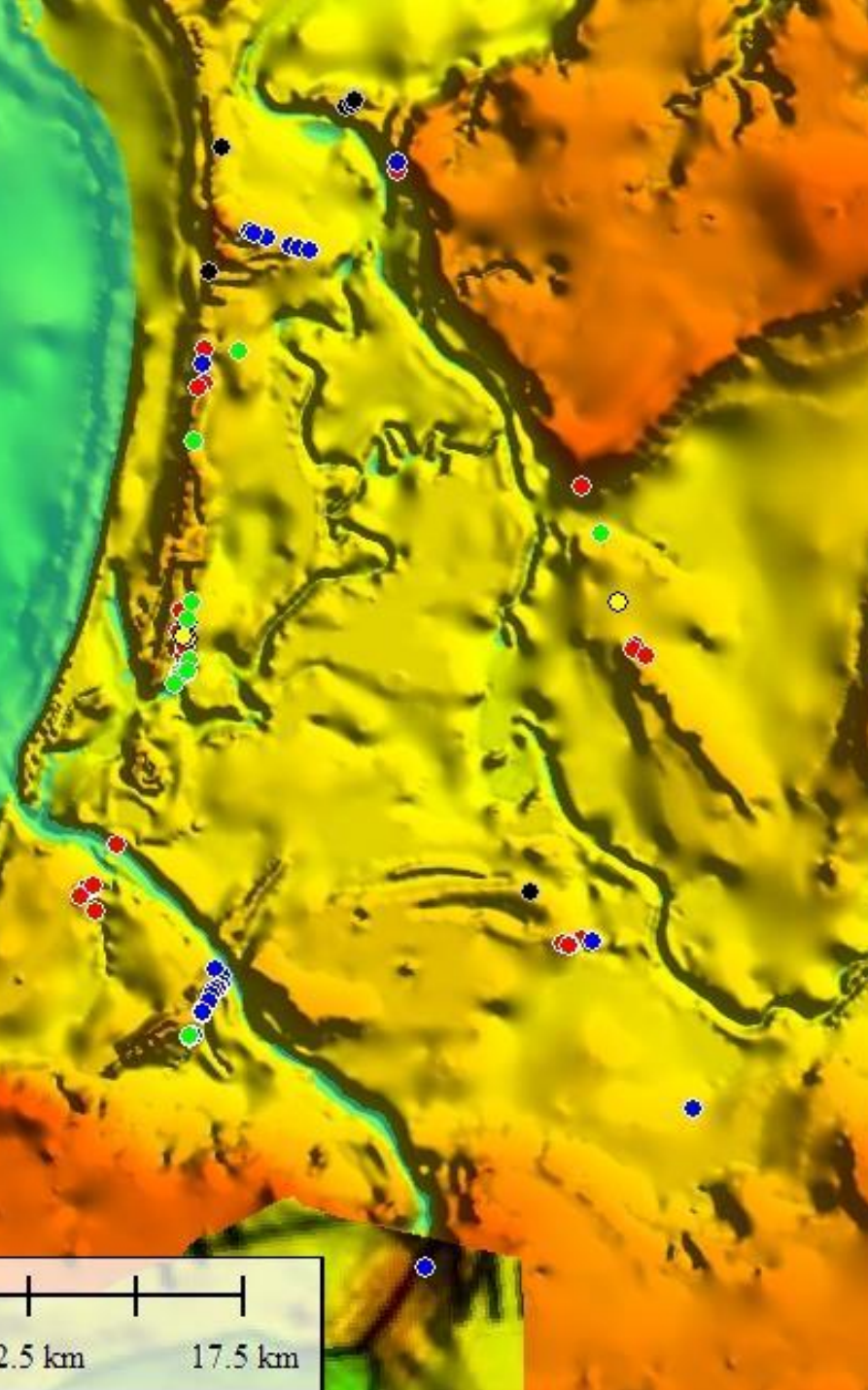
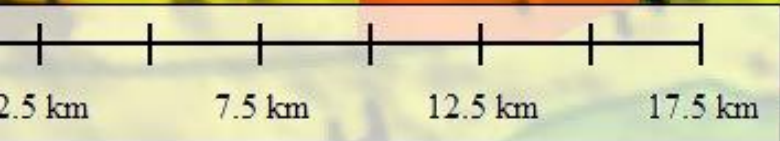
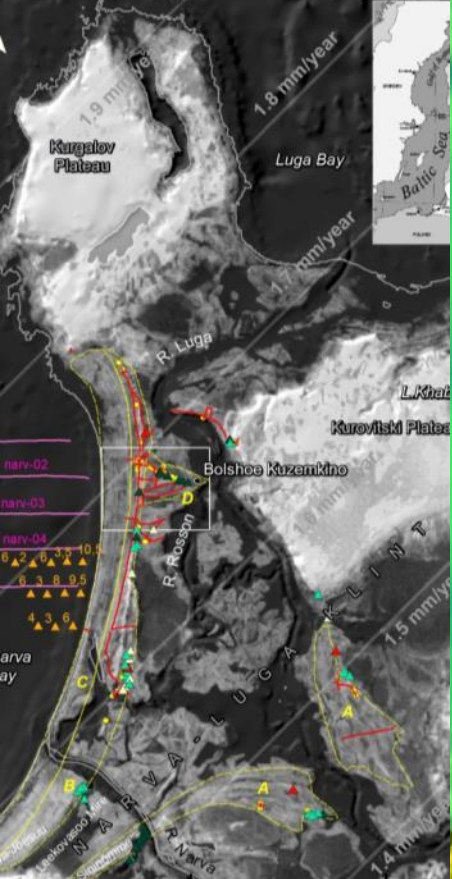


Early-Middle Holocene archaeological periodization and environmental changes in the Eastern Gulf of Finland: Interpretative correlation



Dmitriy Gerasimov <sup>a,\*</sup>, Aivar Kriiska <sup>b</sup>





**Narva-Luga Klint Bay**  
**79 Stone Age sites**  
**57 found in 2005-2017**

- - after 5500 cal. BC
- - after 4000 cal. BC
- - after 2800 cal. BC

- *strong association of archaeological sites of the certain age and coastal forms of certain generation*
- *perspective of developing a chronology of coastal forms basing on archaeological data*



# Thank you for your attention!

