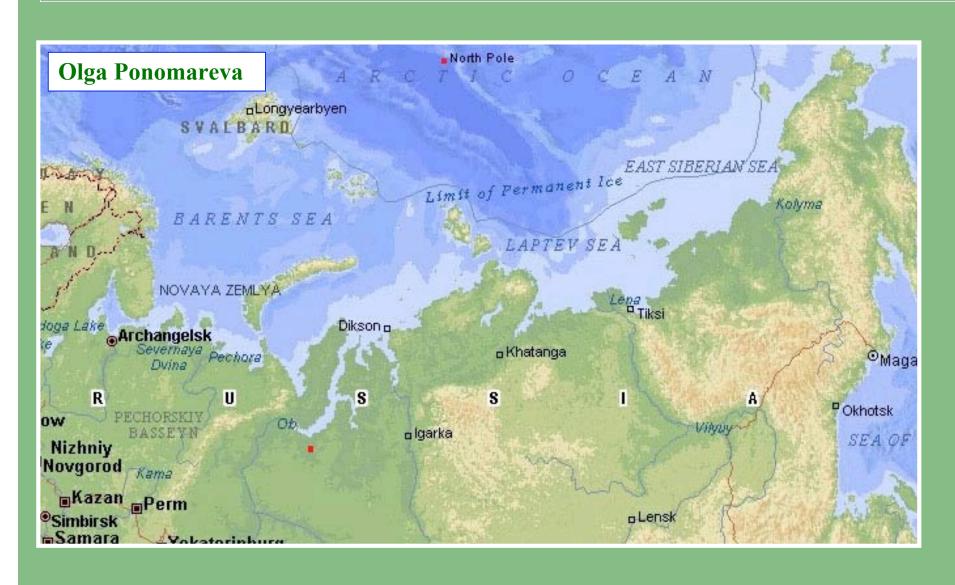
Overview of Nadym Region: Climate, zonation, physiography, geology, permafrost



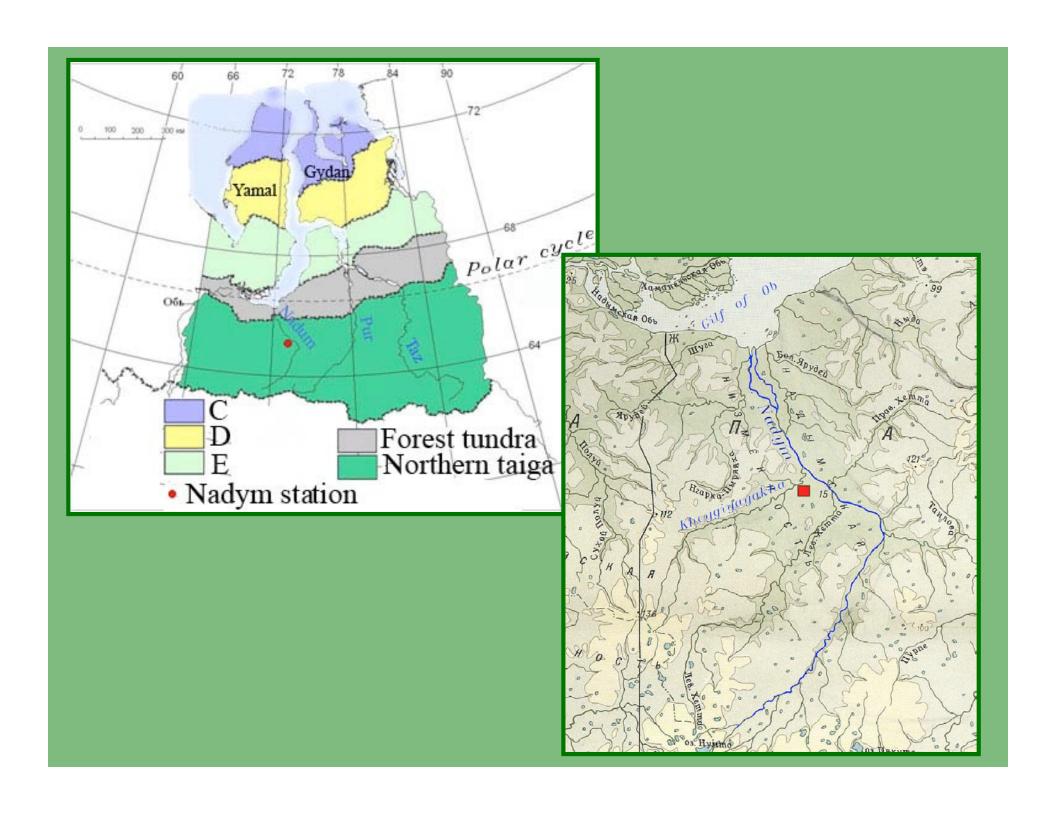
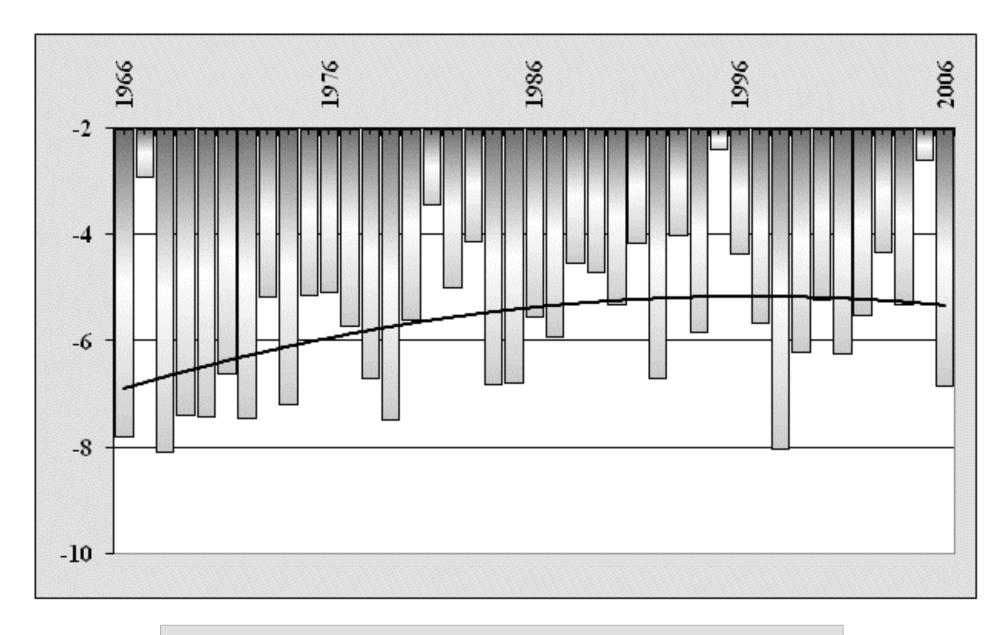
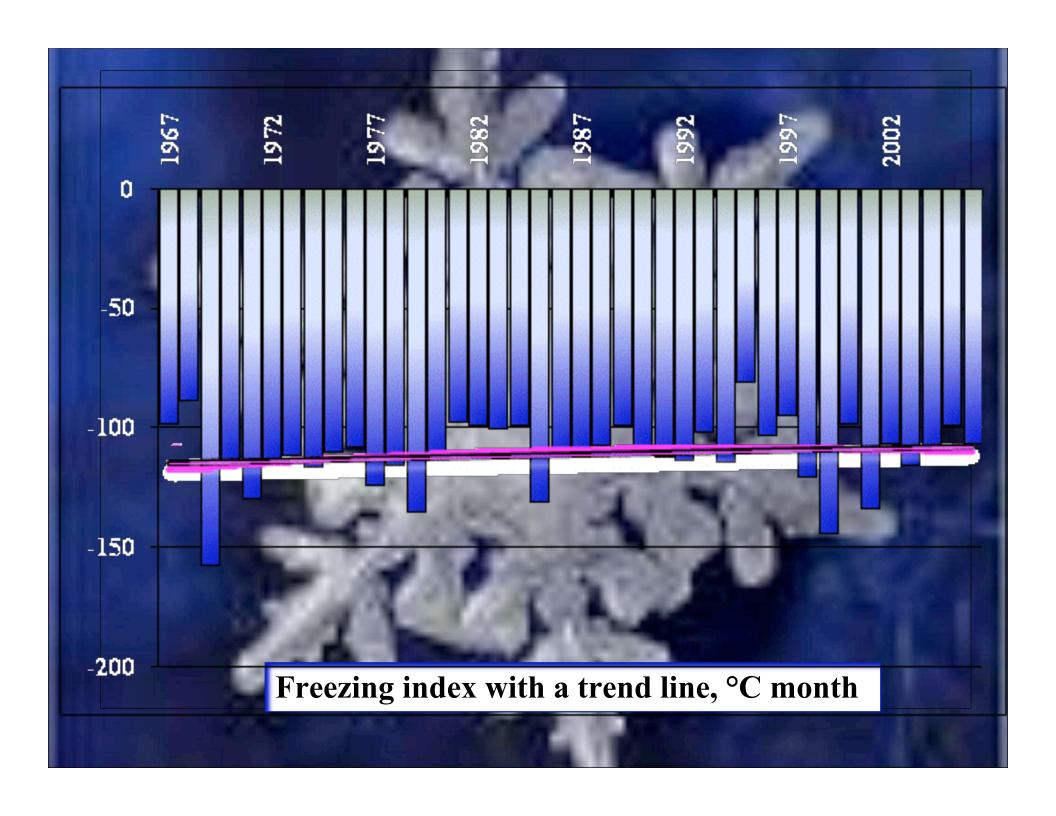


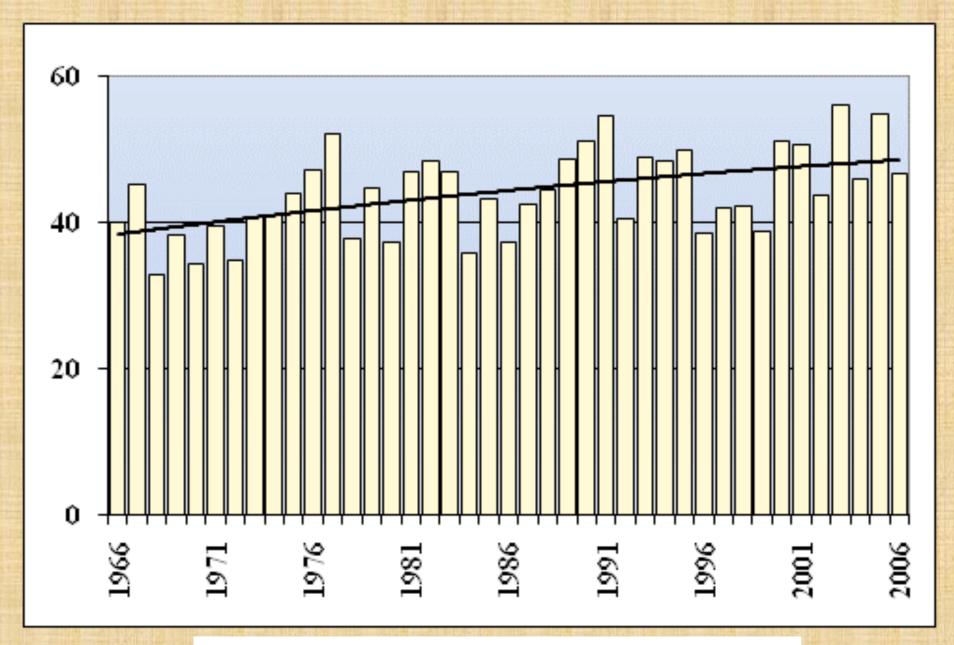
Table the Climatic characteristic of area Nadym

Parameters	Values
Average annual temperature of air, °C	-5,6 (-2,4:-8,0)
Average temperature of air of the coldest month, ° C	-23,6 (-30,3:-13,8)
Average temperature of air of the warmest month, ° C	+15,6 (+10,1: + 18,1)
Amplitude of average temperatures	39,2
of air, ° C	
Annual amount of atmospheric	478,0
precipitation, mm	(358,7:642,7)
Monthly amount of atmospheric precipitation , mm	39,8
Summer amount of atmospheric precipitation , mm	251,8
Winter amount of atmospheric precipitation , mm	226,3
Duration of a snow cover, days	222-240
Mid-annual temperature грунтов, °С	+13

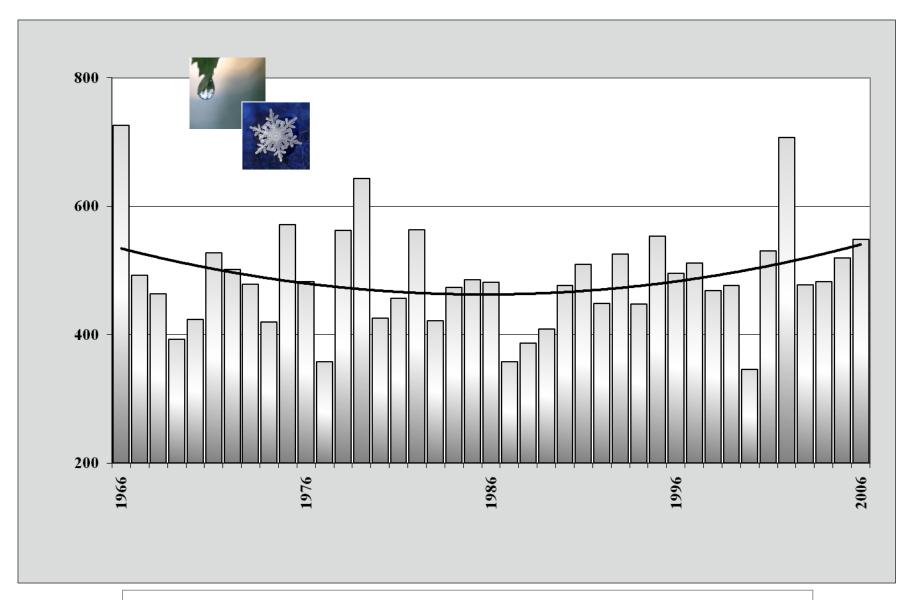


Mean-annual temperatures with a trend line, °C

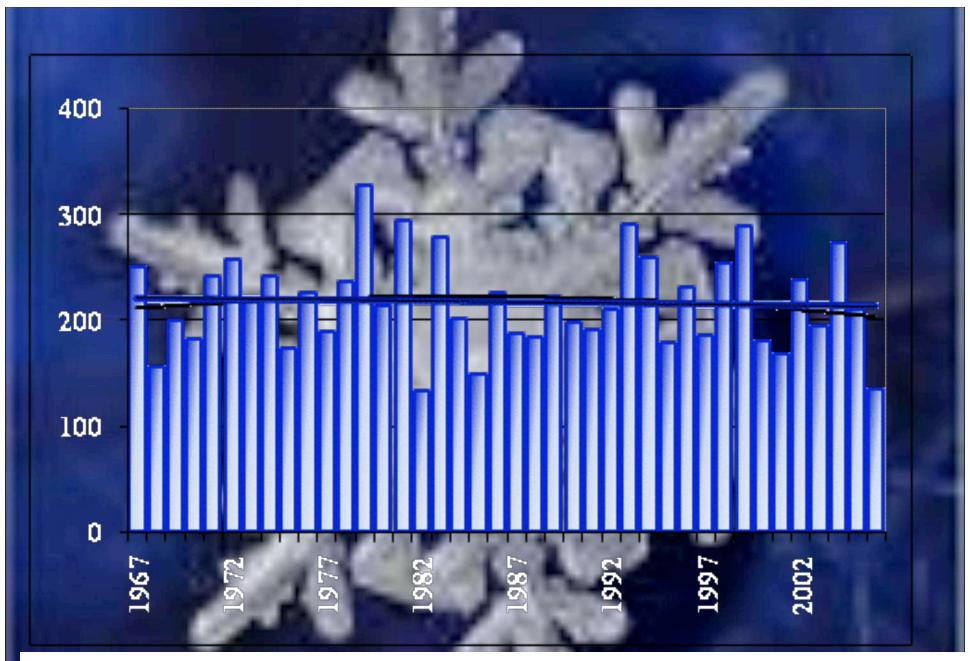




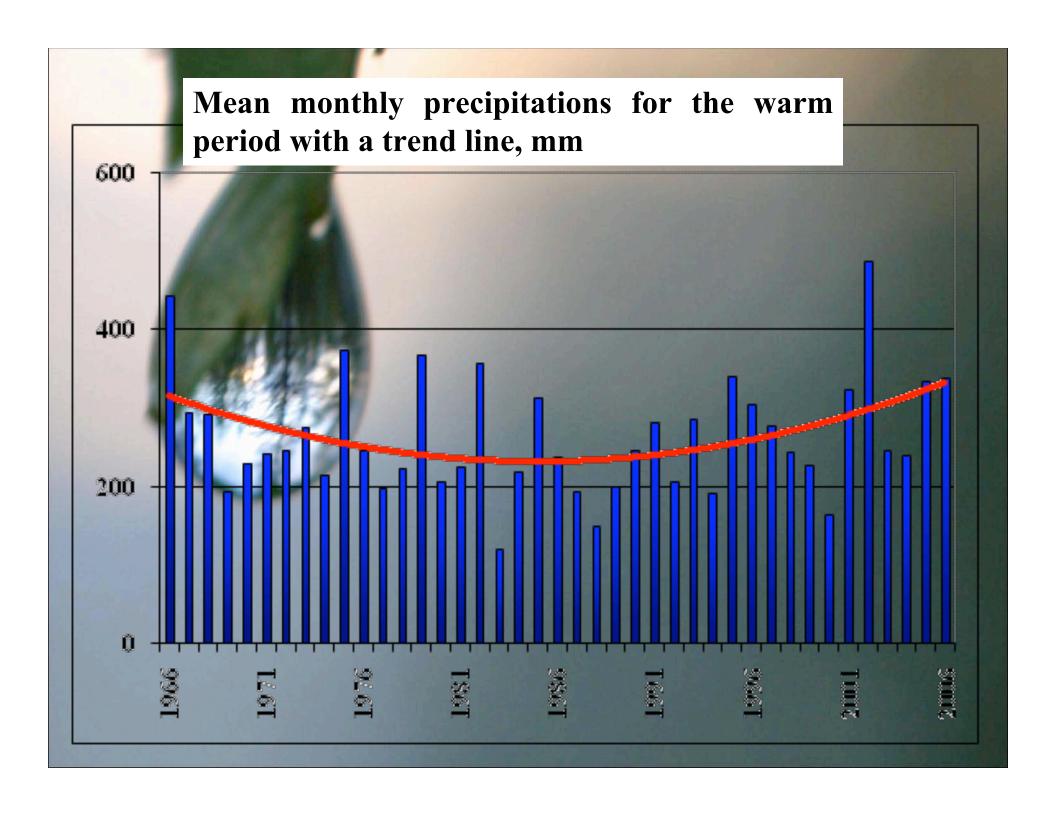
Thawing index with a trend line, °C month



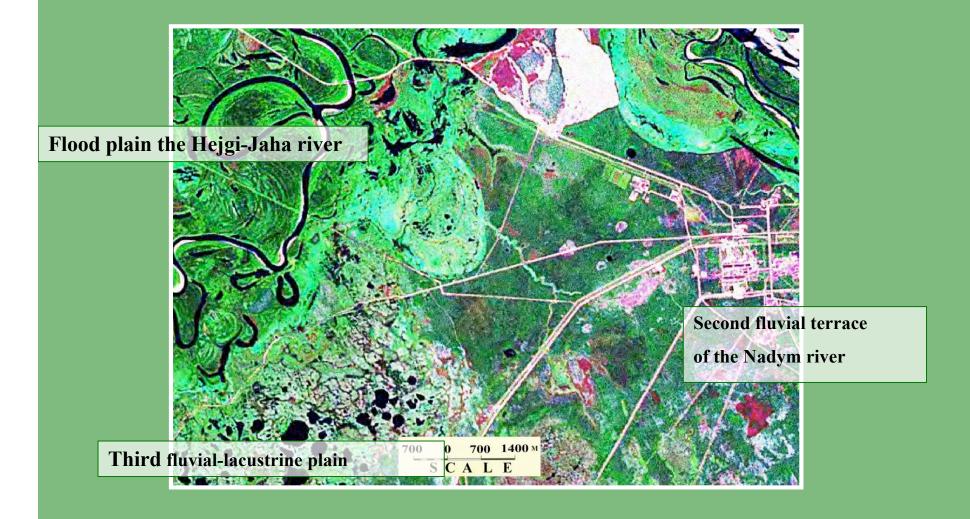
Yearly precipitations with a trend line, mm



Mean monthly precipitations for the cold period with a trend line, mm

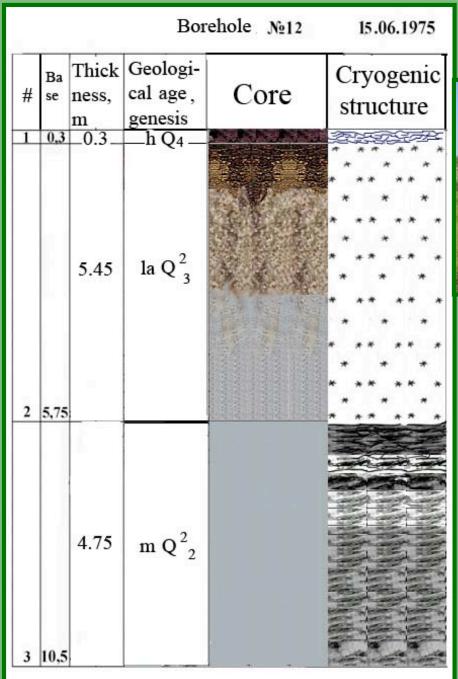


Observation site



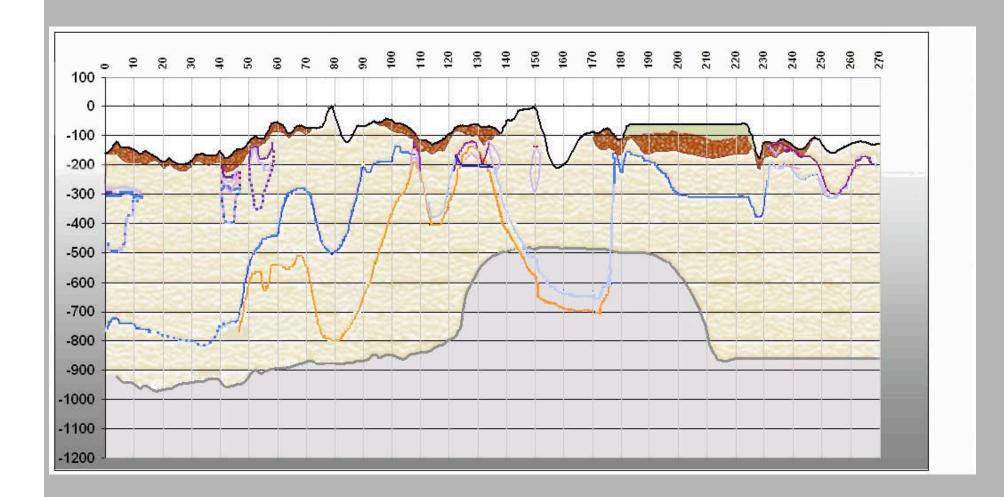
A relief of research area poorly dissected (altitude 15-30 m), that has caused its wide distribution of lakes and mires.







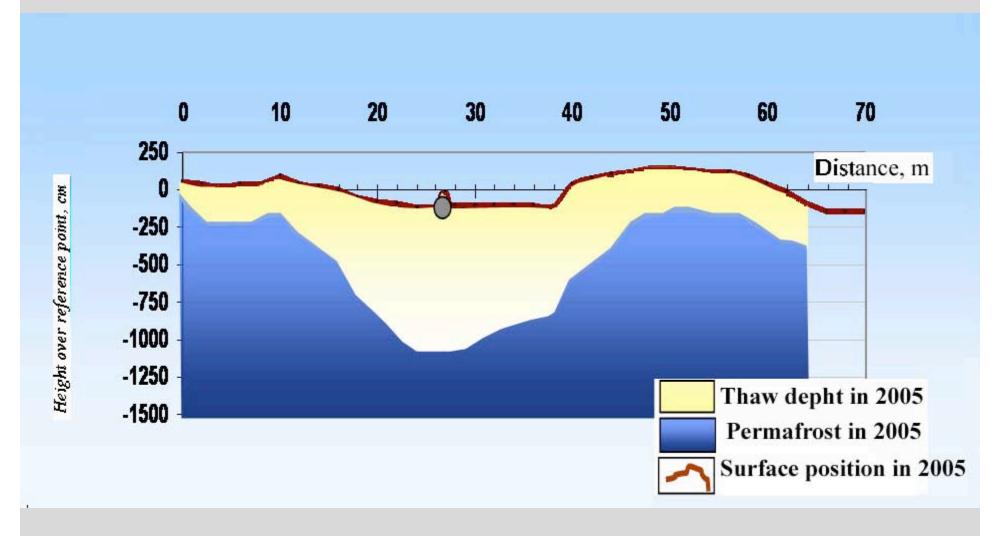








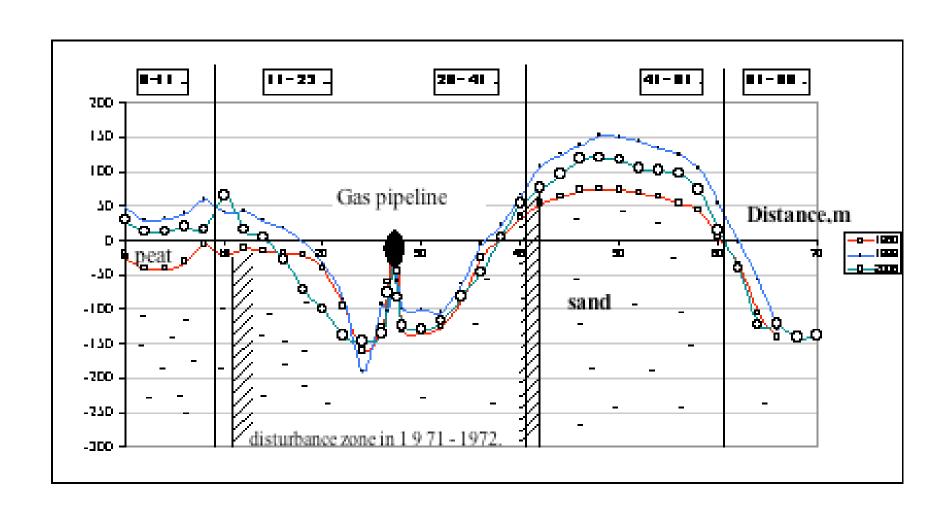
Permafrost table position on profile I-I on the geophysical data







Dynamics of long-term frost heave.



- 1. Frost mounds develop now, are not relic forms, and rise of their surface may be as high as 30-60 cm in 30 years; the maximal rise occurred in the coldest winters.
 - 2. Three stages of peat frost mounds development within the period of technogenic impact are subdivided: thaw settlement, stabilization, and frost heave which are changing into each other in the process of vegetation recovery.
 - 3. Thermokarst outside the man-affected zone in modern climatic conditions is not active. Thaw settlement up to 100 cm develops actively within the first 2 years after the human impact.
 - 4. In natural conditions increase in the area of the mires, making 1 9 % for 15 years occur mainly due to increase in amount of summer atmospheric precipitation. At man-caused conditions bogging much more intensively also occurs both due to increase in amount of summer precipitation, and due to distrubance of a superficial drain and flooding as a result of a lining of a gas pipeline.



Man-caused conditions bogging

