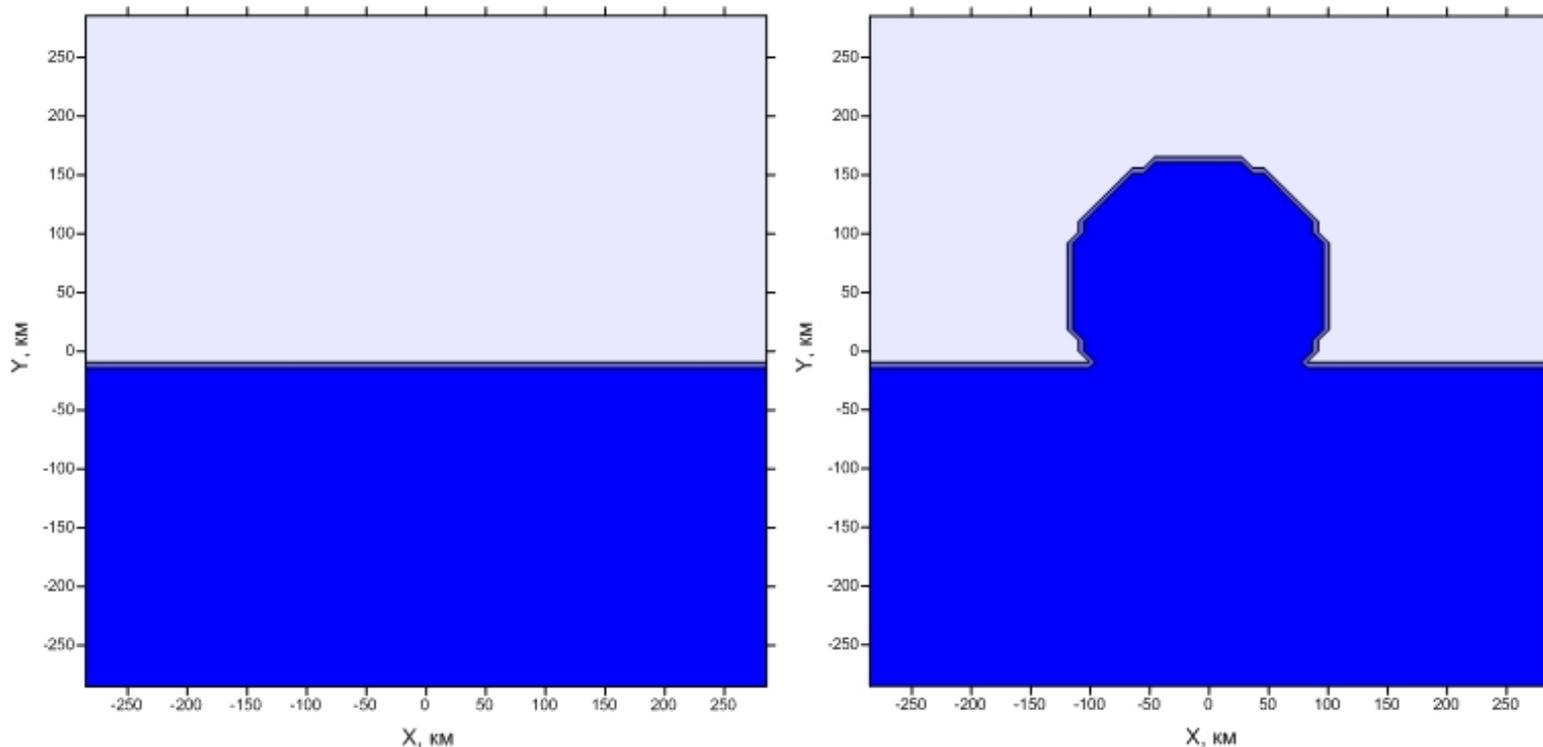


## Задание 2. Моделирование динамики ледового бриза

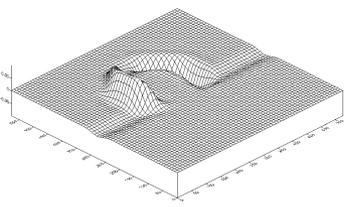
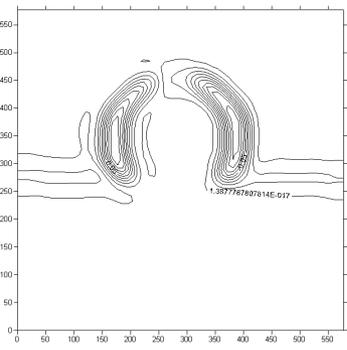
Провести численные эксперименты по воспроизведению циркуляции бризовой природы, возникающей на прямой кромке морского льда и на кромке льда с «заливом» (рис. 2).



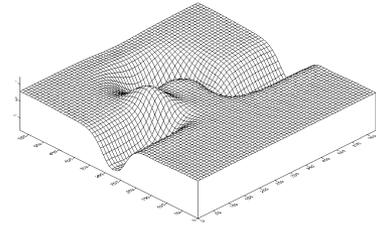
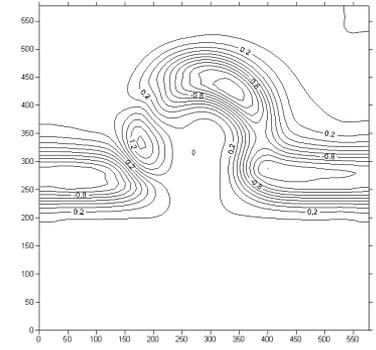
**Рис. 2. Распределение открытой воды и льда в двух численных экспериментах (синим цветом показана открытая вода, белым — лед, покрытый снегом). Направления направо — восток, наверх — север.**

# us - зональная компонента скорости, м/с

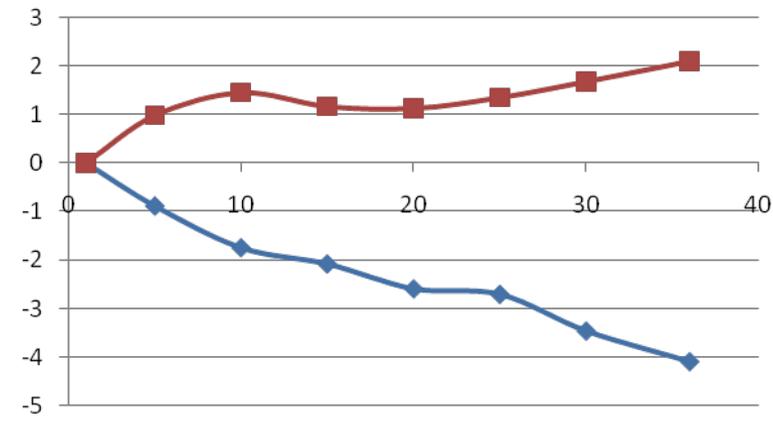
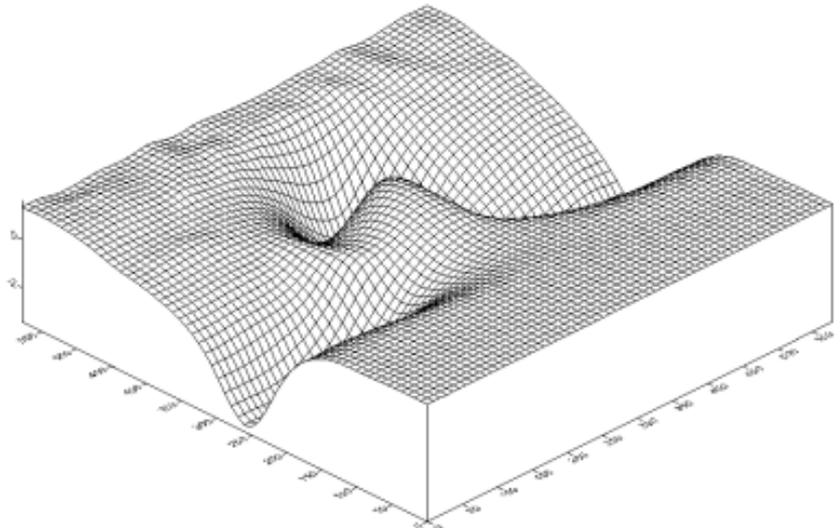
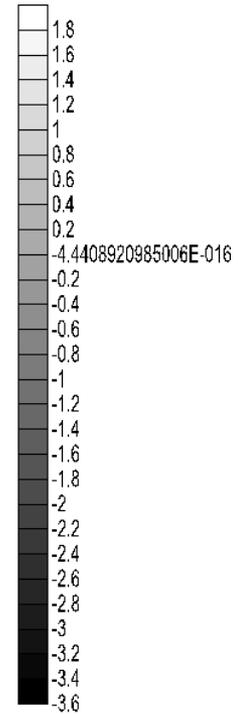
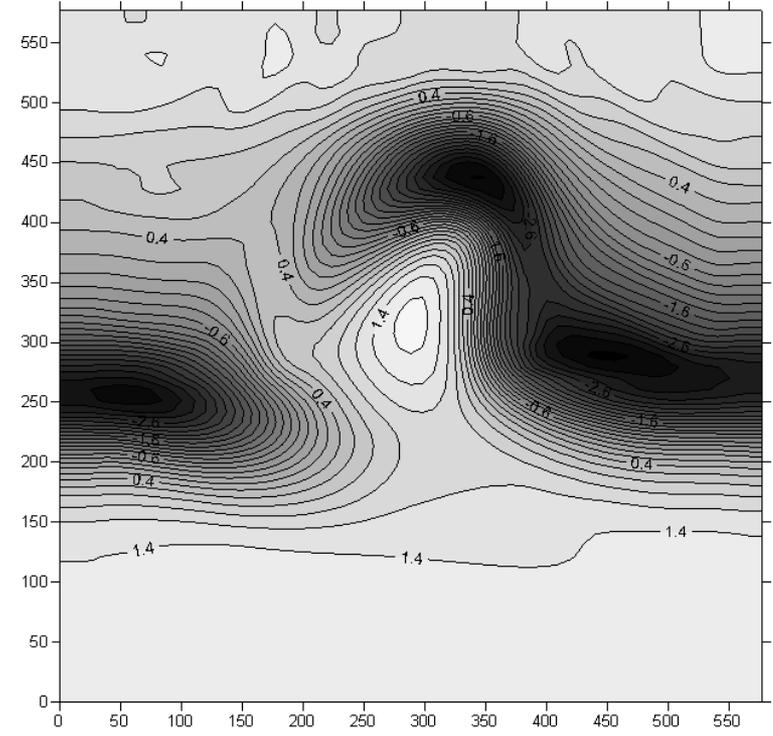
2



10



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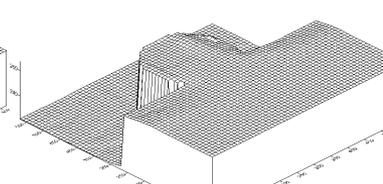
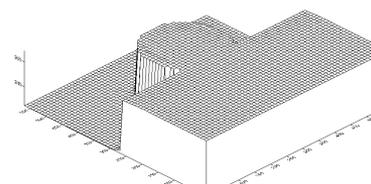
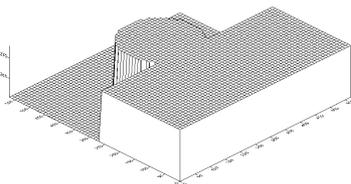
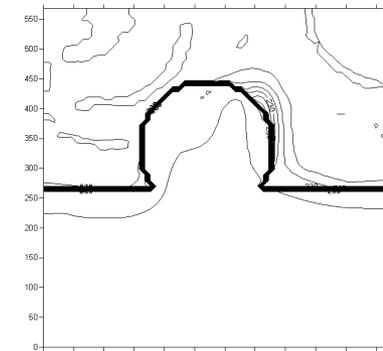
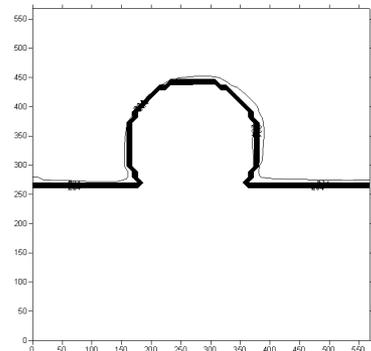
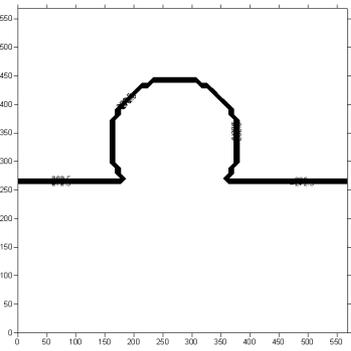


# Tsurf - температура подстилающей поверхности, К

1

20

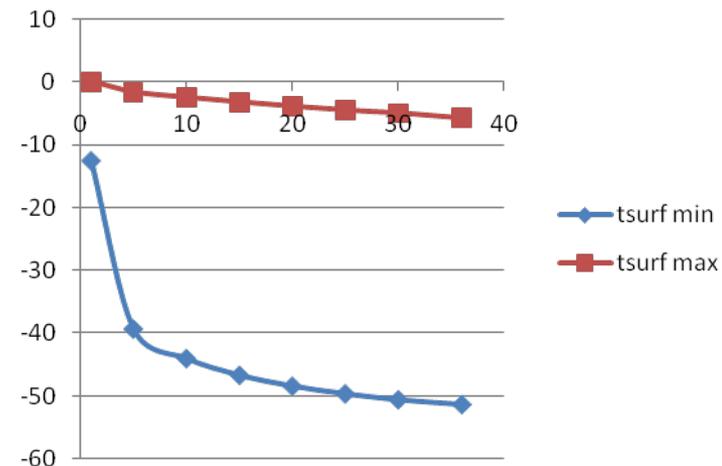
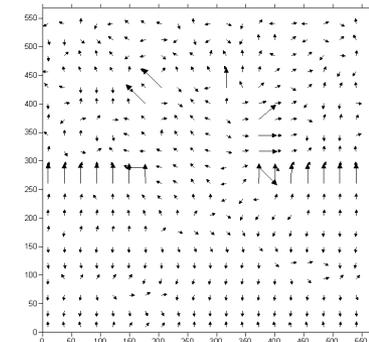
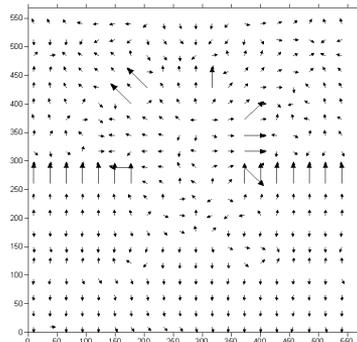
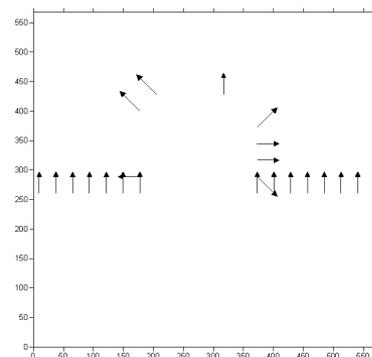
36



1

20

36

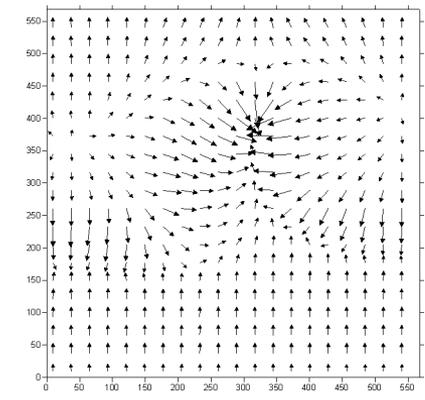
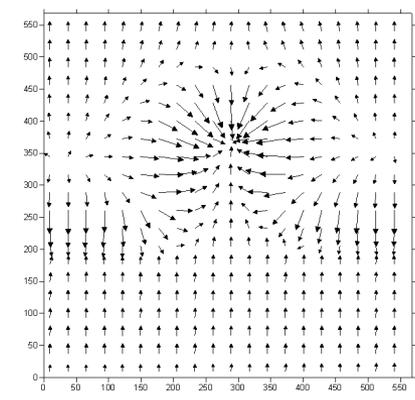
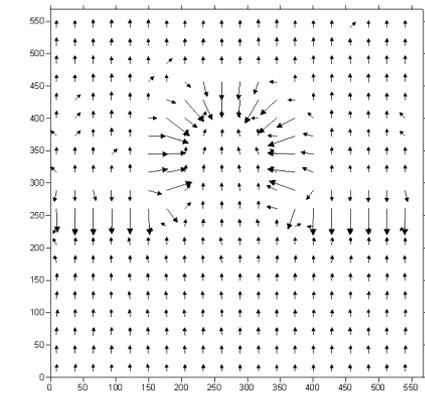
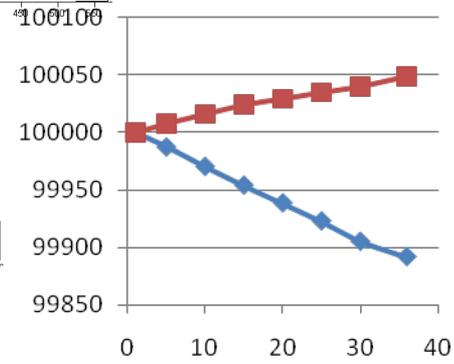
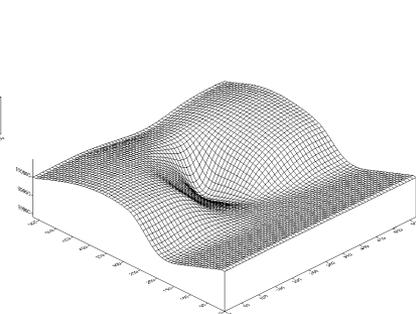
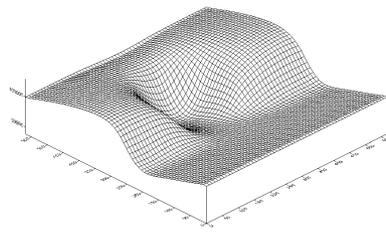
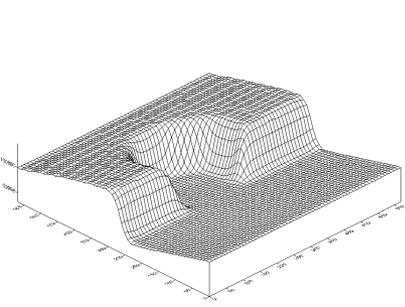
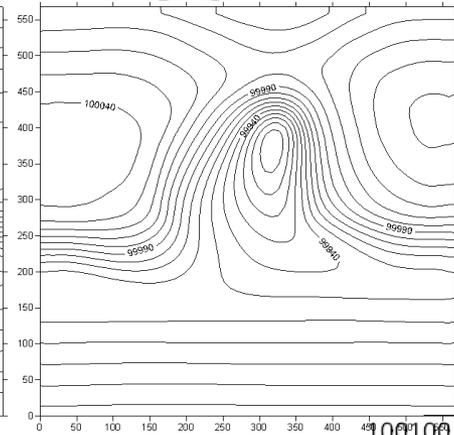
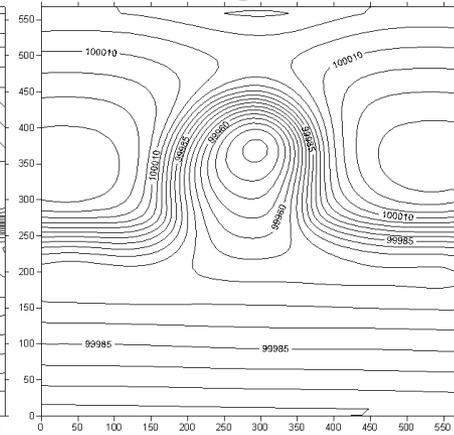
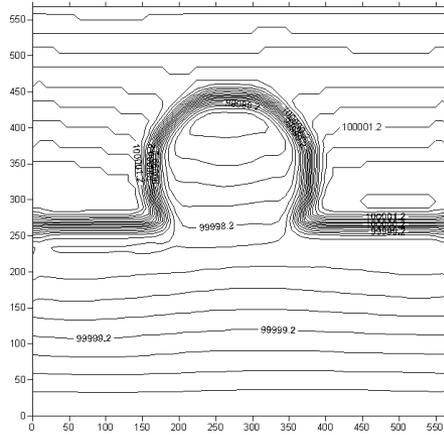


# psurf - поверхностное давление, Па

2

20

36



# le - Поток скрытого тепла, Вт/м3

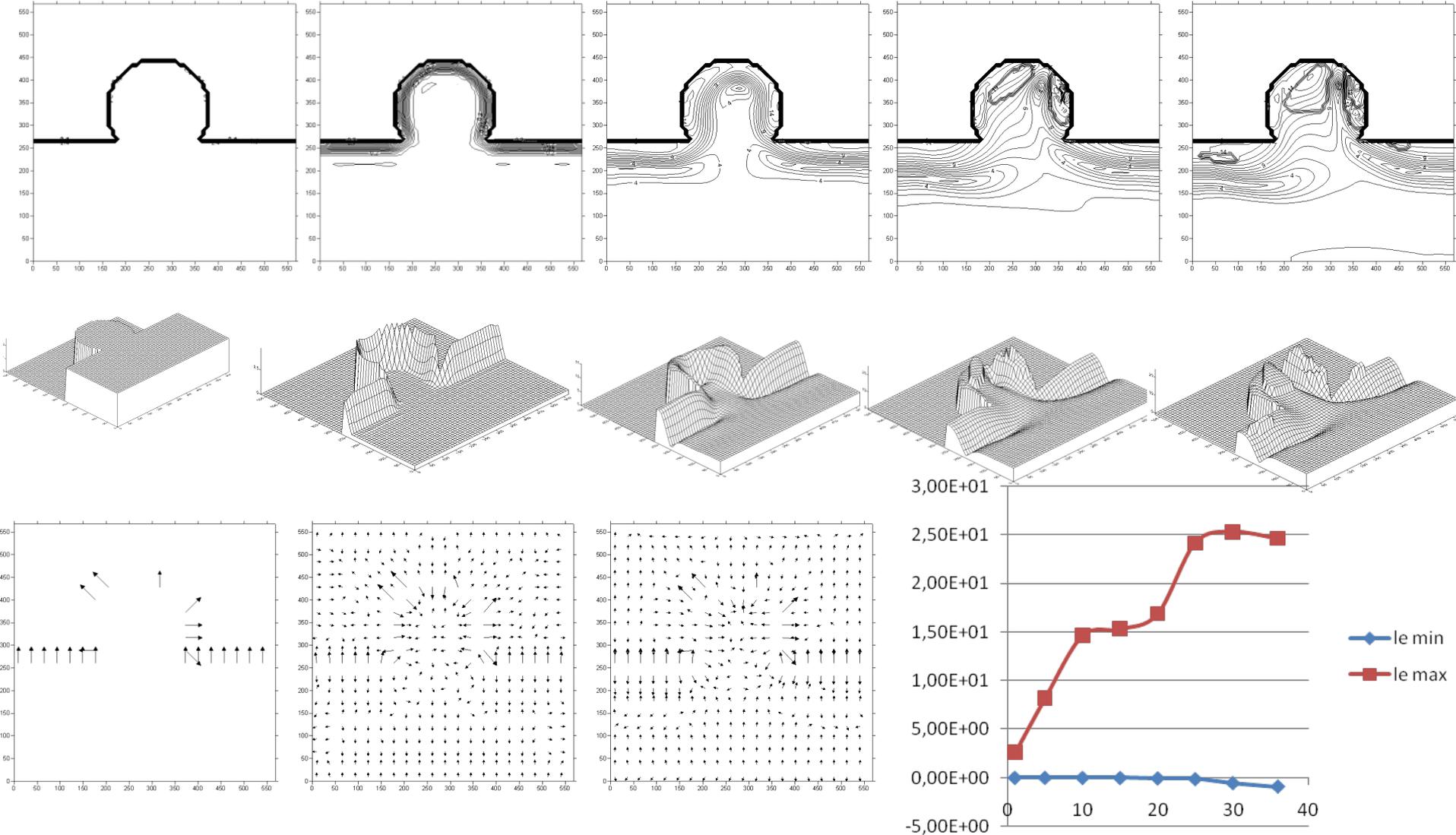
1

2

15

30

36



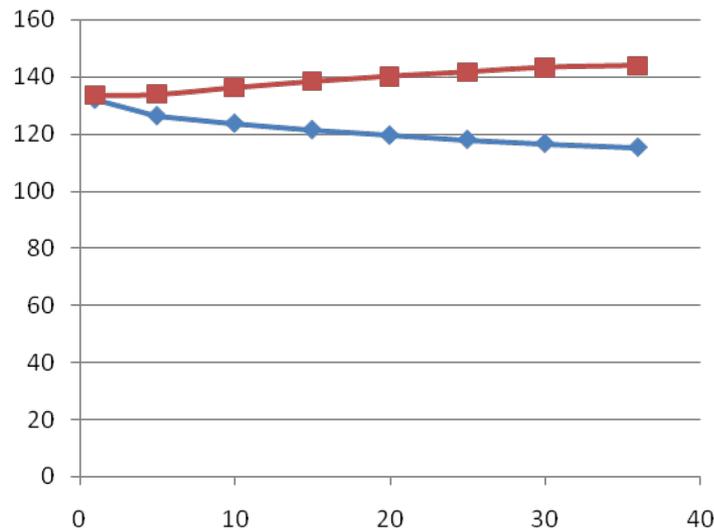
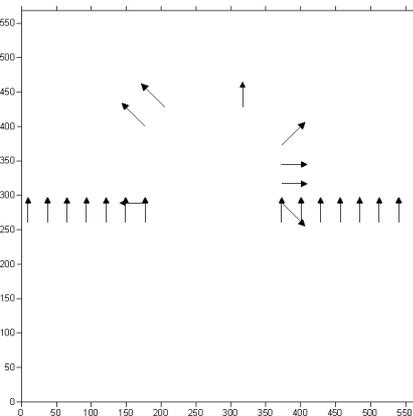
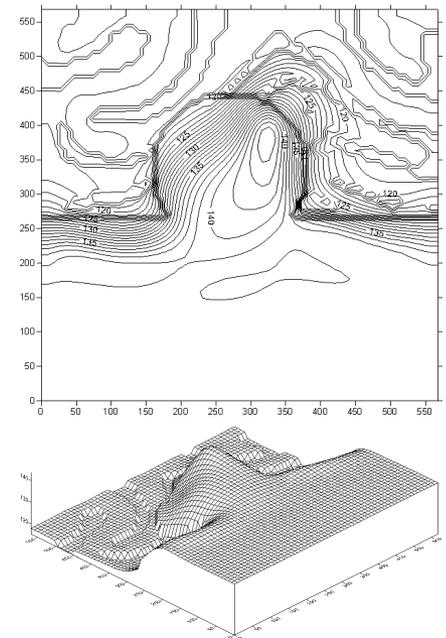
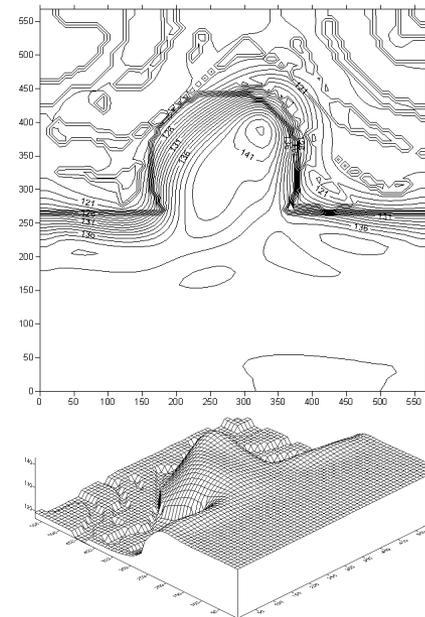
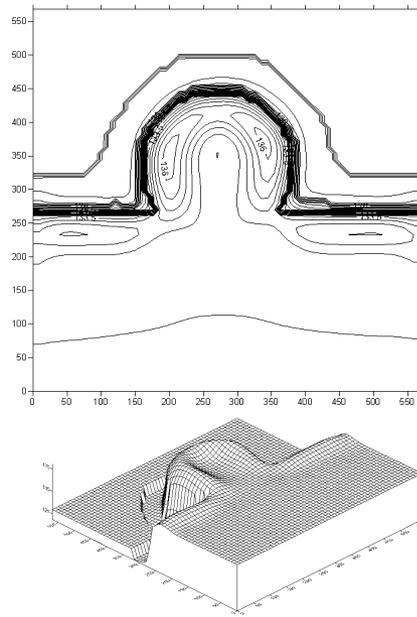
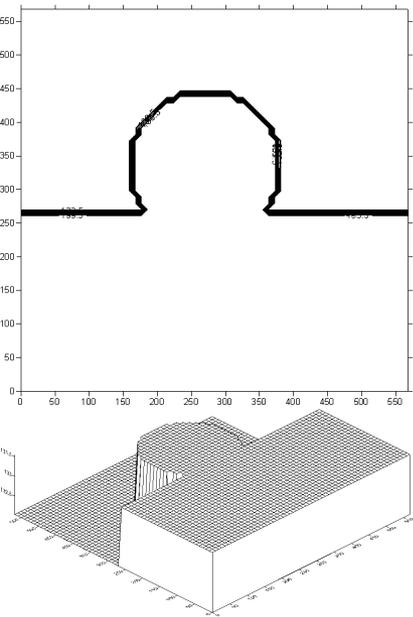
# Lrads - длинноволновая радиация атмосферы, Вт/м<sup>2</sup>

1

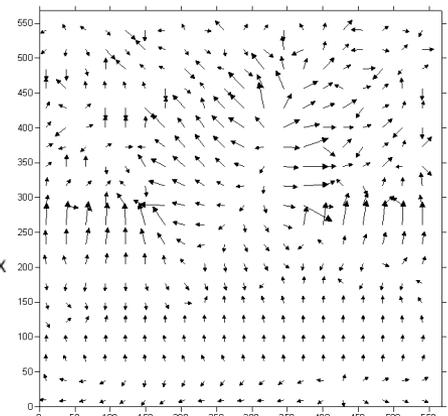
10

30

36



◆ lrad mix  
■ lrad max



## Задание 2. Моделирование динамики ледового бриза

Провести численные эксперименты по воспроизведению циркуляции бризовой природы, возникающей на прямой кромке морского льда и на кромке льда с «заливом» (рис. 2).

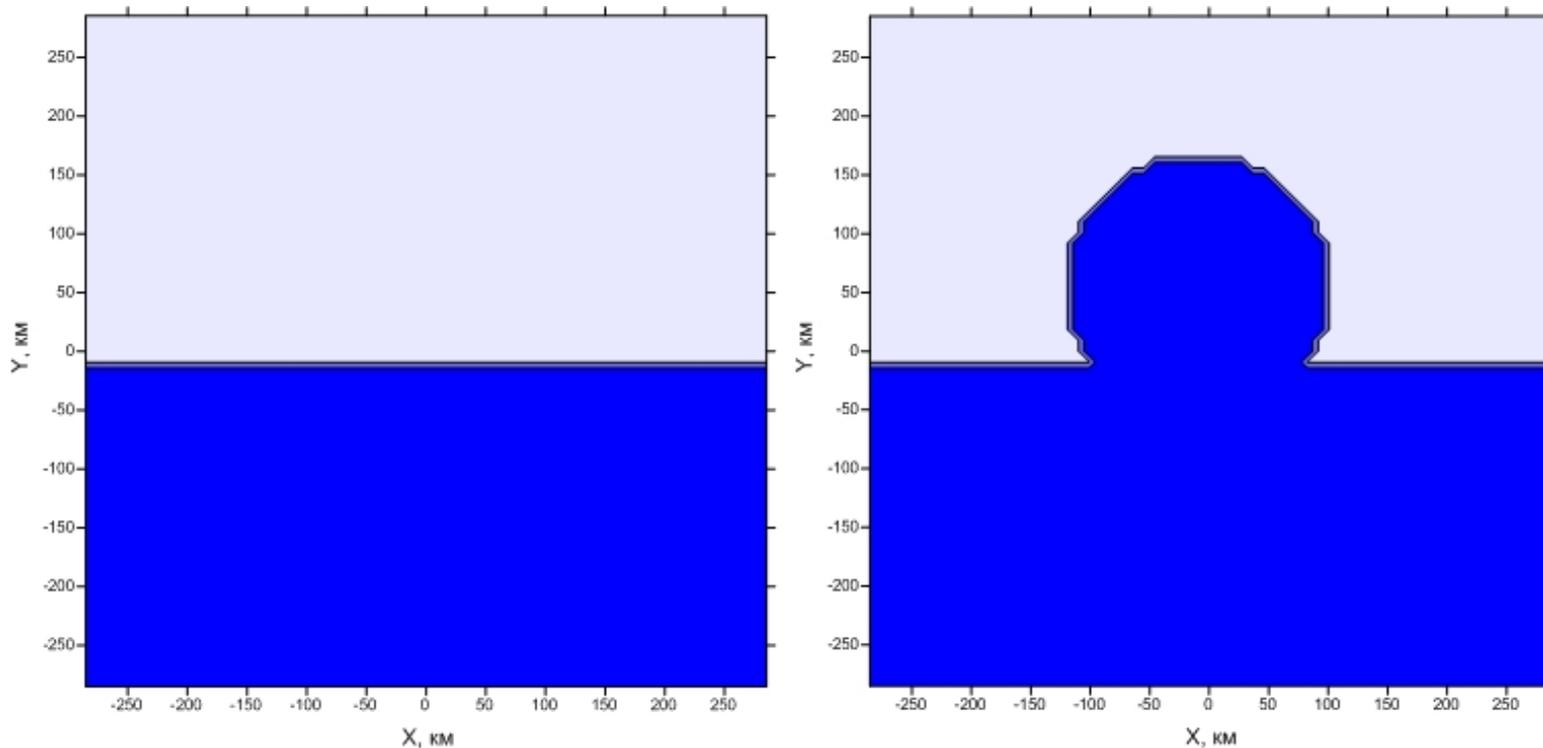


Рис. 2. Распределение открытой воды и льда в двух численных экспериментах (синим цветом показана открытая вода, белым — лед, покрытый снегом). Направления направо — восток, наверх — север.

# us - зональная компонента скорости, м/с

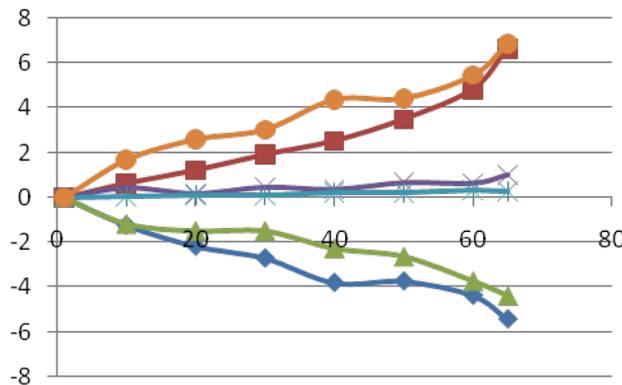
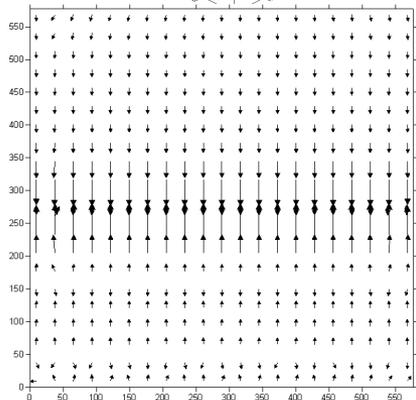
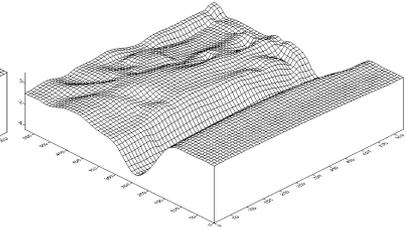
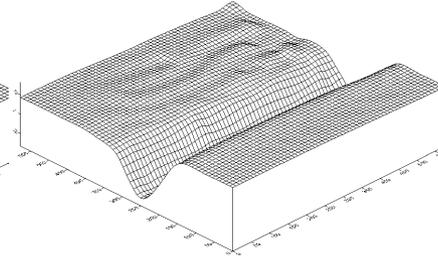
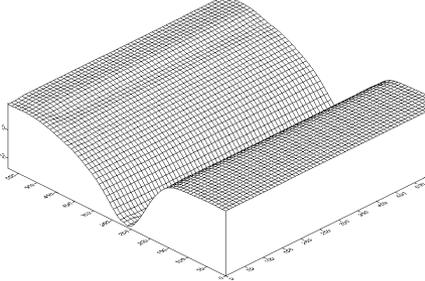
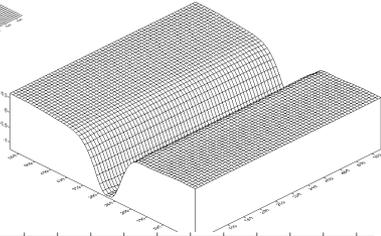
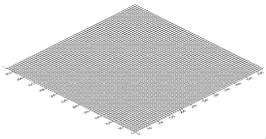
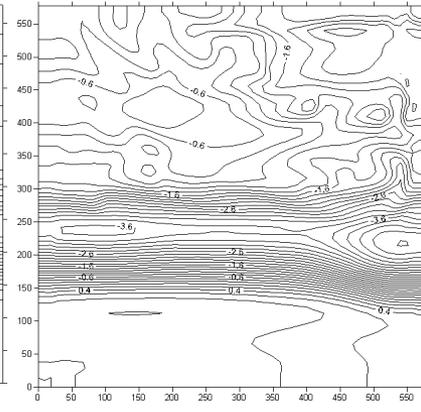
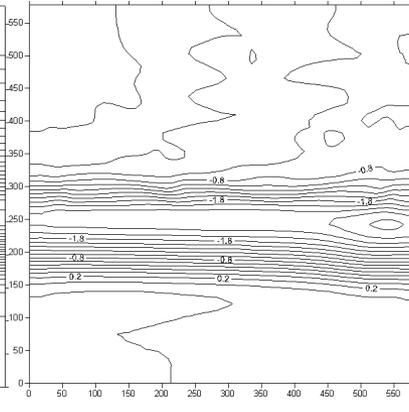
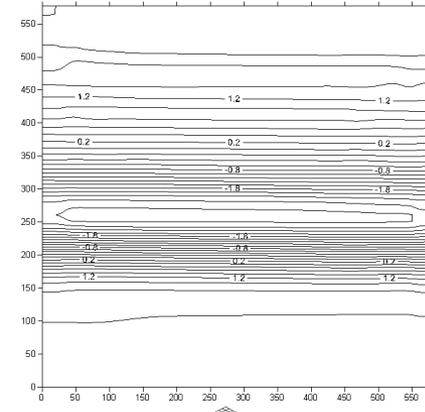
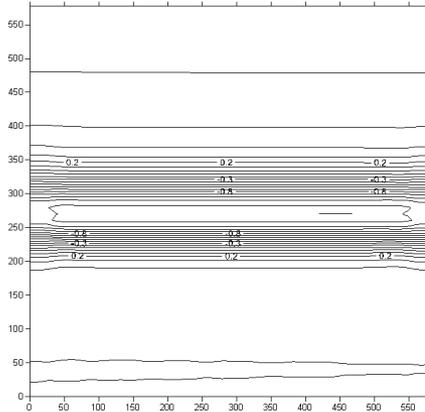
1

10

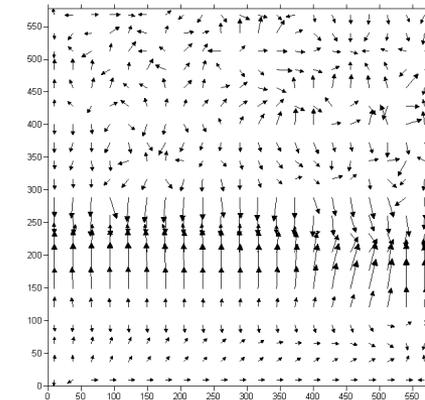
30

50

65



- us min
- us max
- vs min
- vs max
- wind min
- wind max



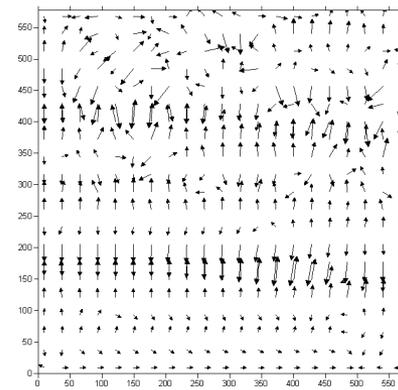
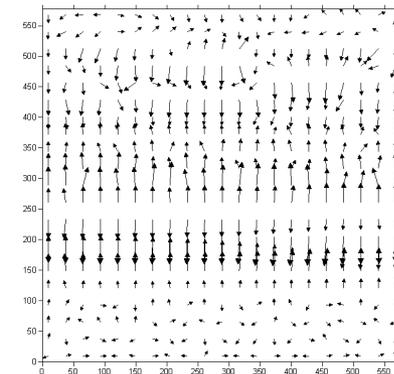
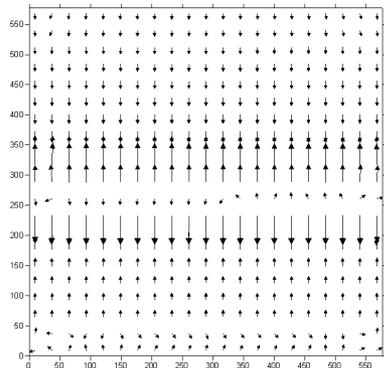
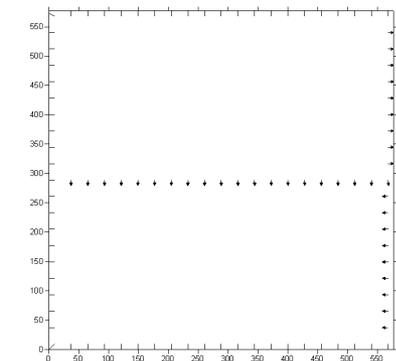
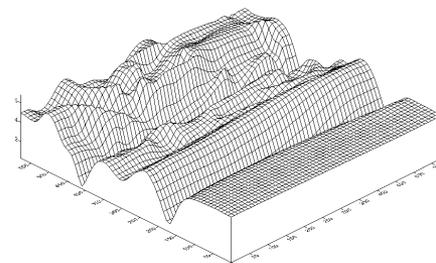
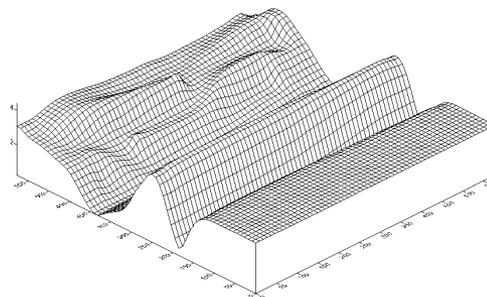
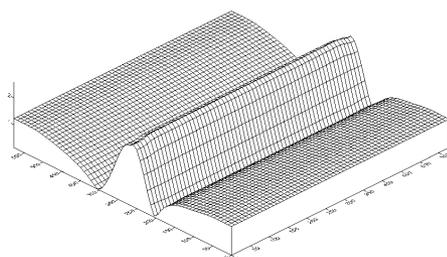
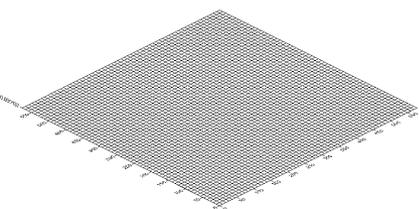
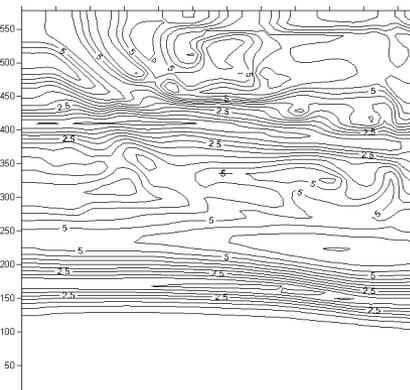
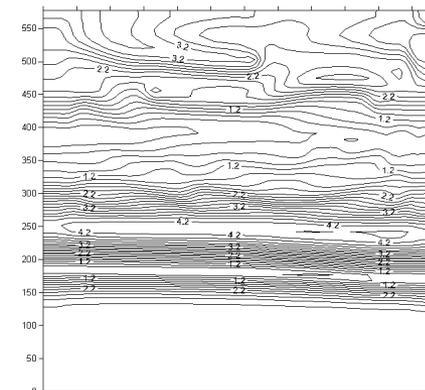
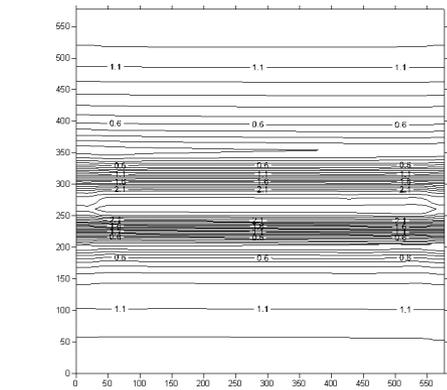
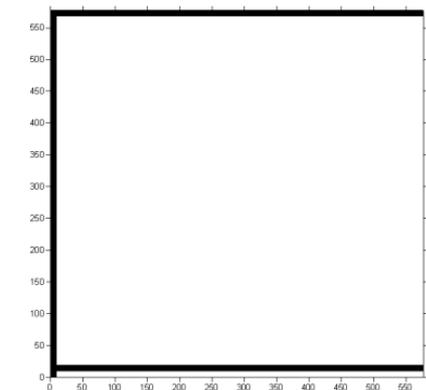
# wind $(uv^2+us^2)^{0.5}$

## 1

## 20

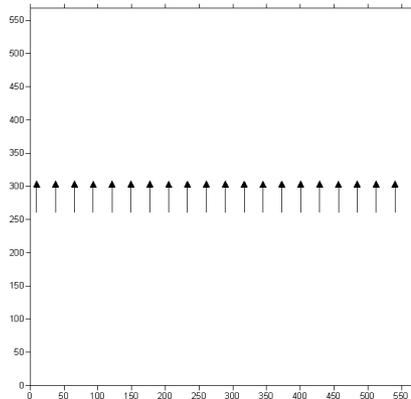
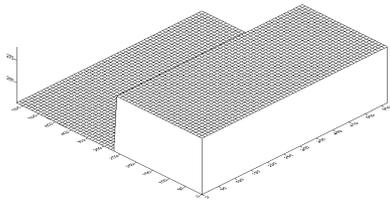
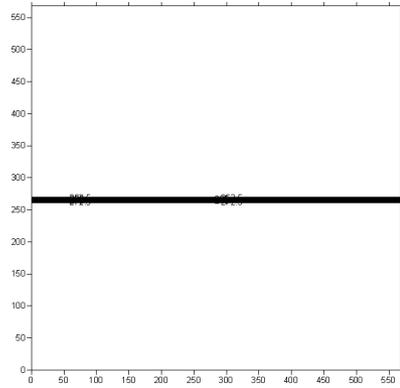
## 50

## 65

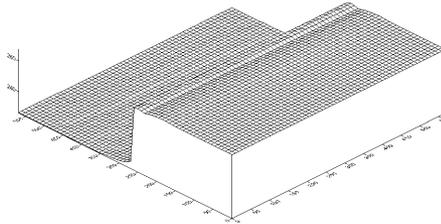
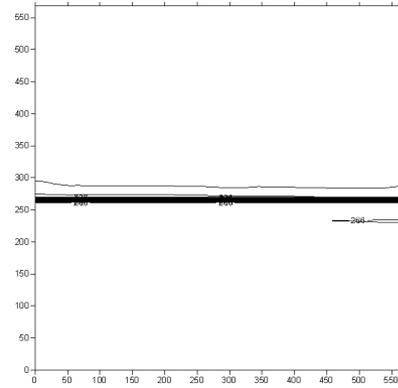


# tsurf - температура подстилающей поверхности, К

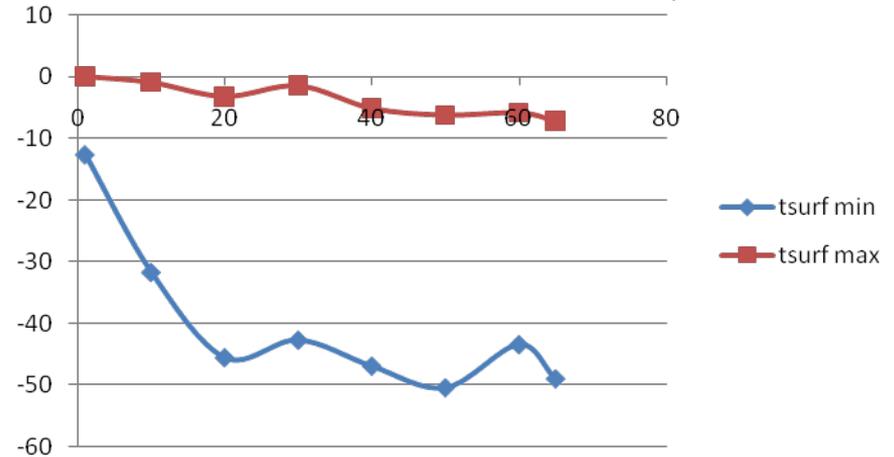
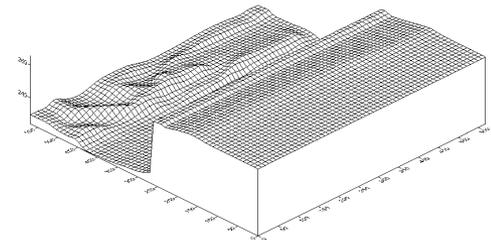
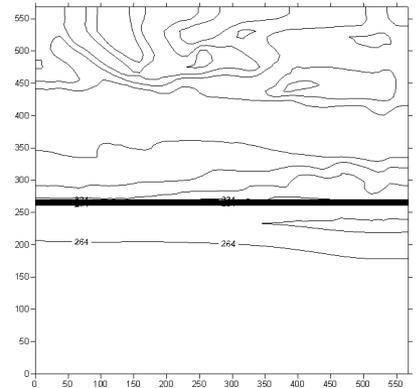
## 1



## 40

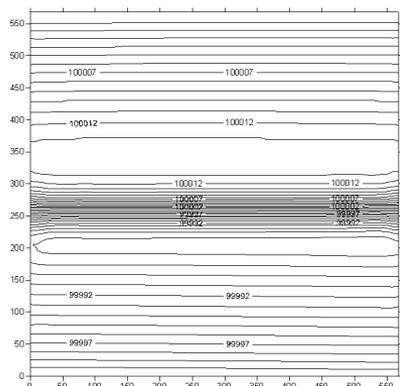


## 65

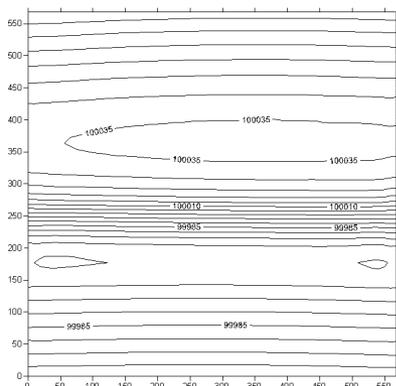


# psurf – поверхностное давление, Па

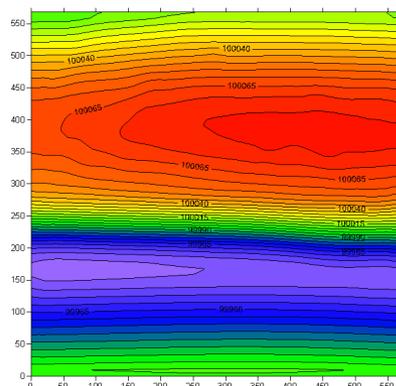
## 10



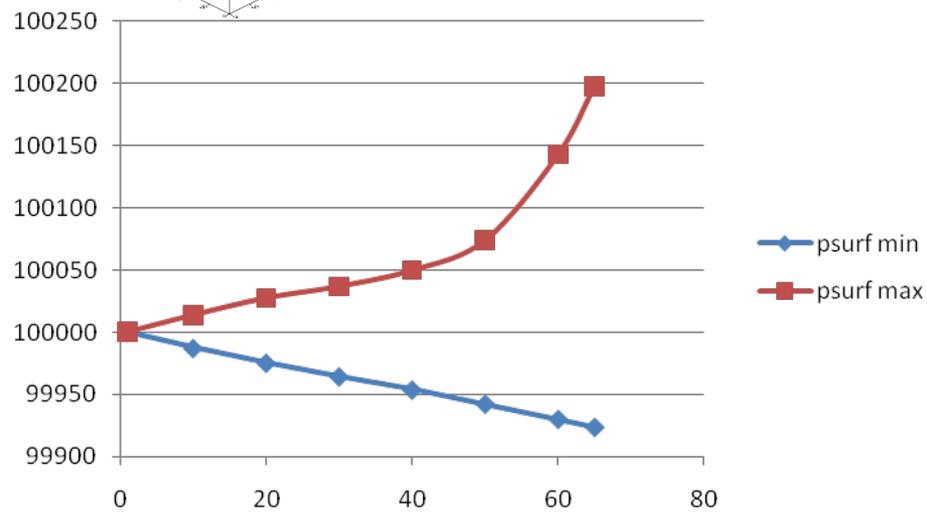
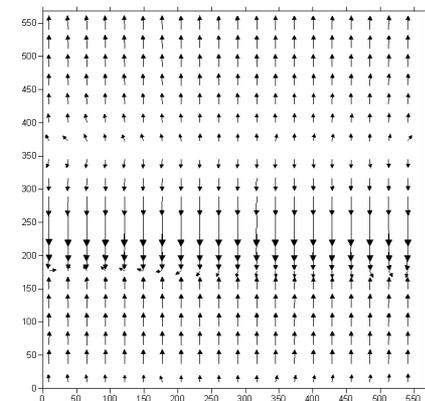
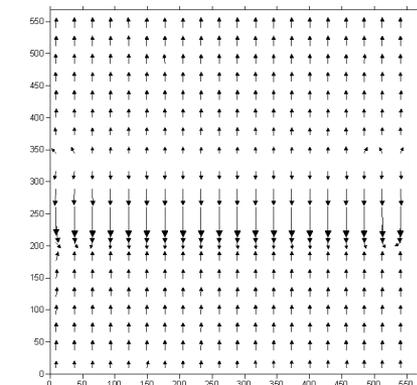
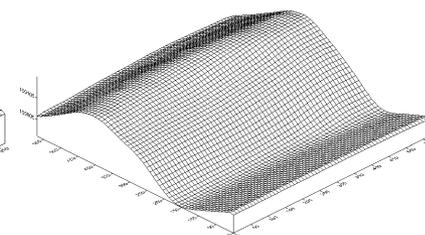
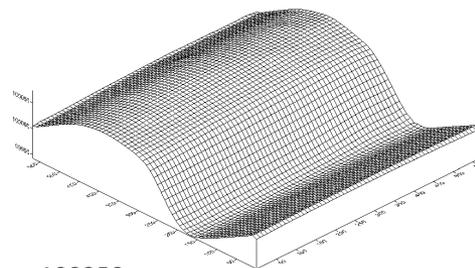
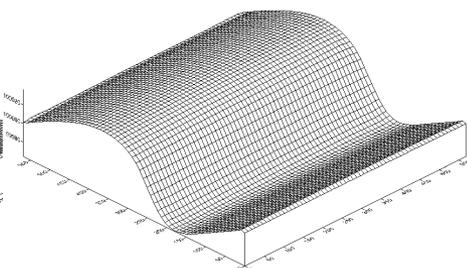
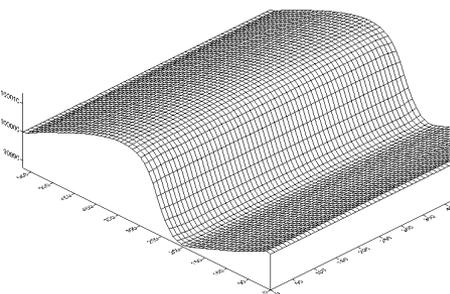
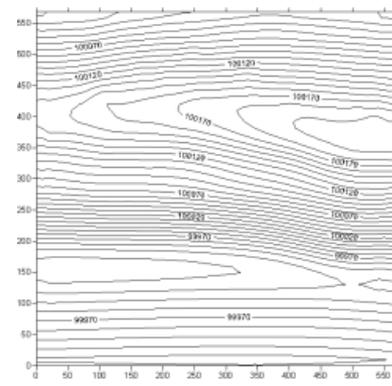
## 30



## 50

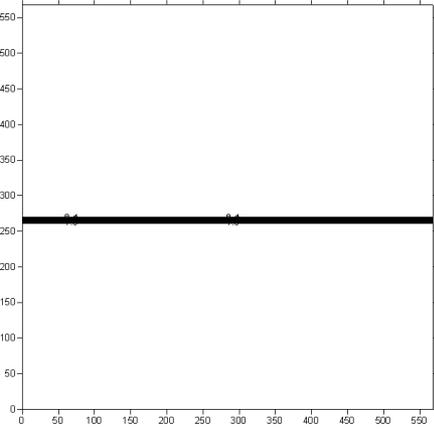


## 65

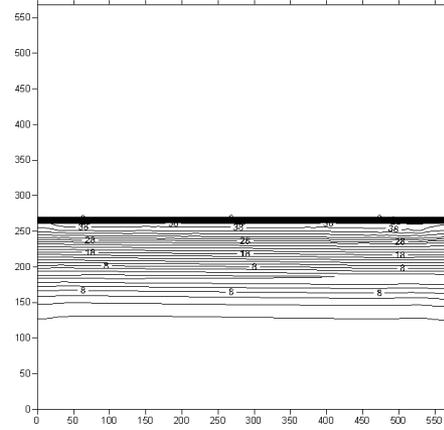


# h - поток явного тепла, Вт/м<sup>3</sup>

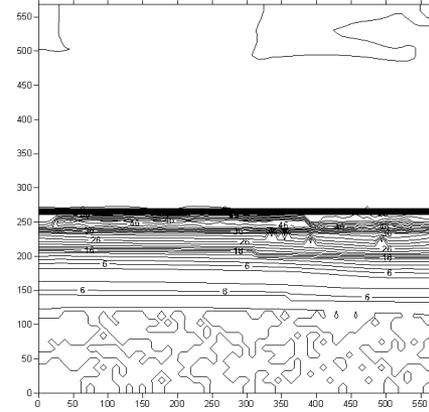
1



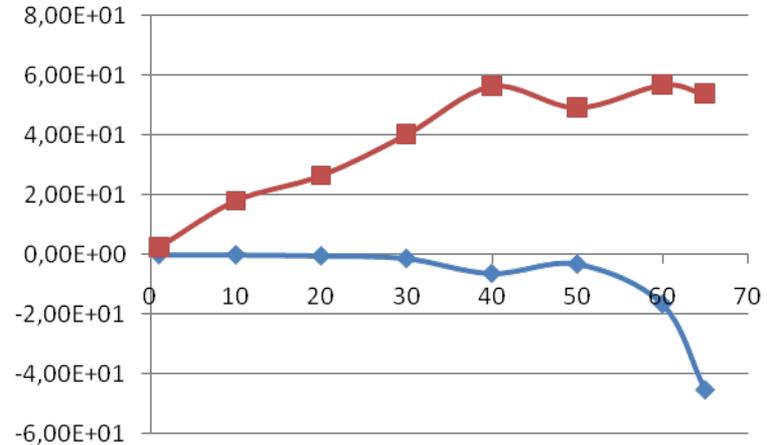
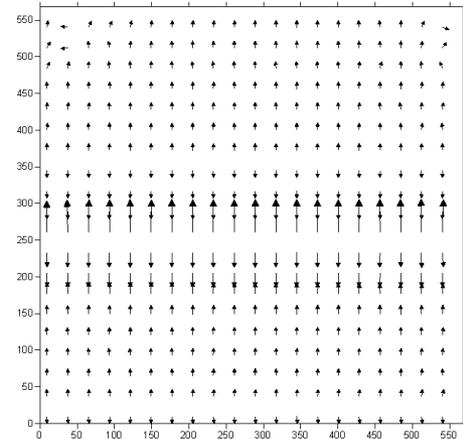
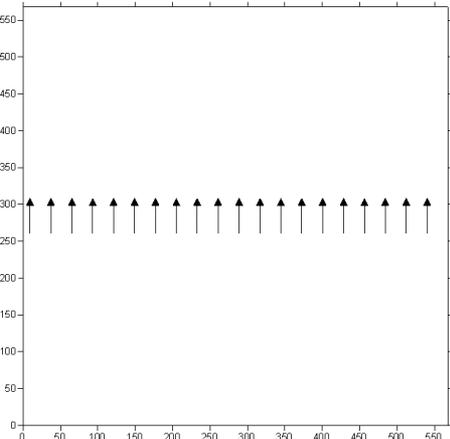
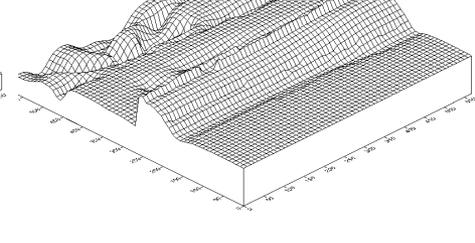
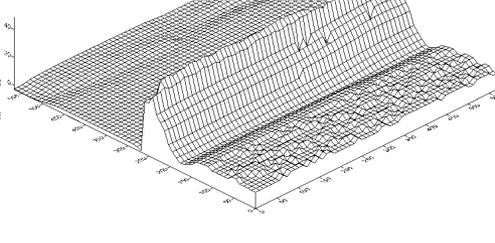
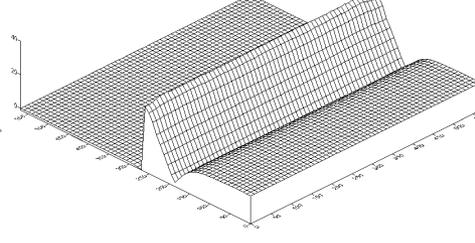
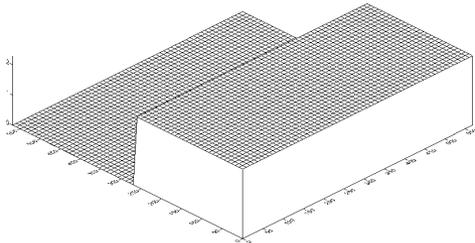
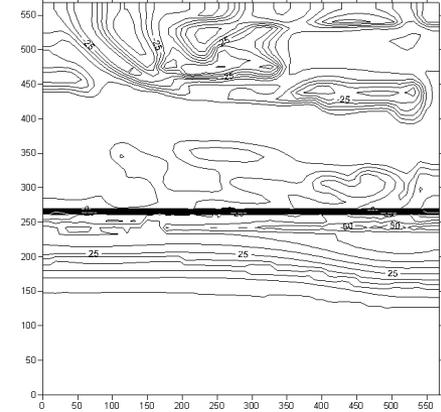
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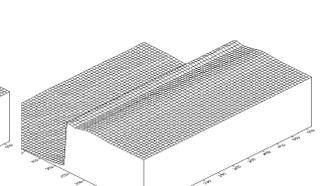
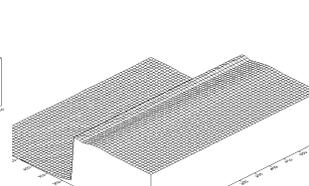
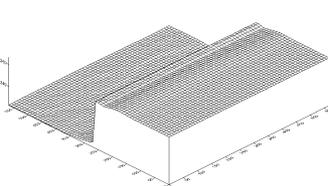
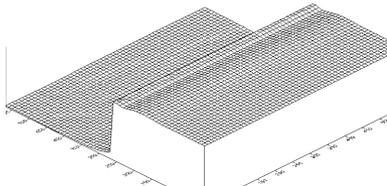
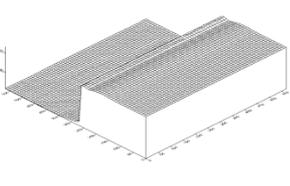
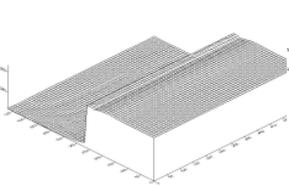
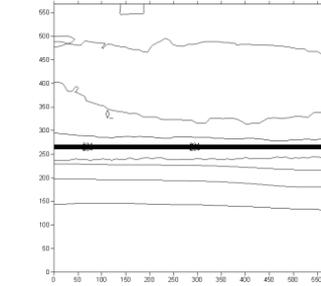
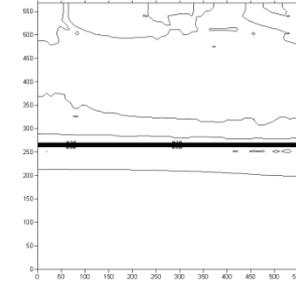
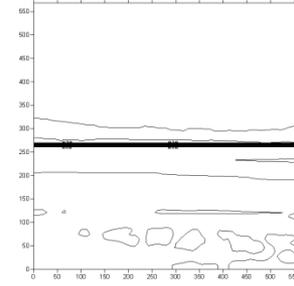
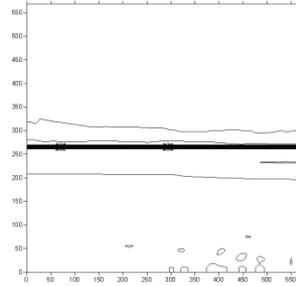
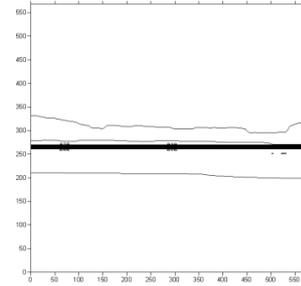
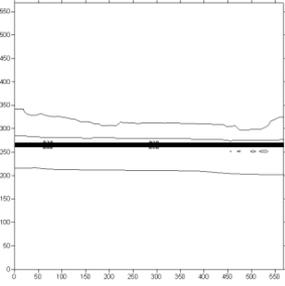
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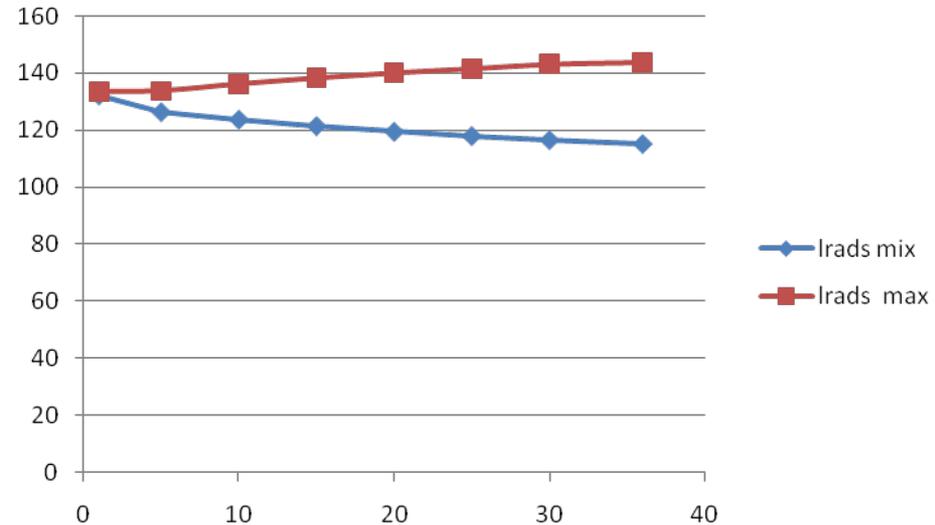
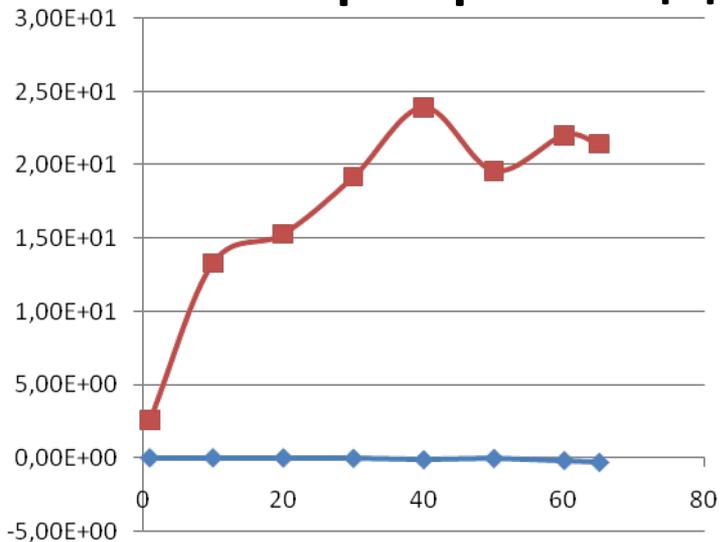
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## Графики других характеристик:



Благодарим за внимание и  
обучение!