Numerical modeling of processes in the mesoscale boundary layer of the atmosphere

G. Geladze, A. Papukashvili, M. Sharikadze

TSU Institute of Applied Mathematics

Resume

I continue the mathematical modeling of the mesoscale boundary layer of the atmosphere (MBLA) and such actual processes taking place in it, such as:

1) "dry" MBLA;

2) "Humidity" MBLA (taking cloud and fog into account);

3) spreading of the pollutant in the MBLA;

4) smog;

5) Fions, artificial influence on them;

We will see a synergistic approach to our tasks.

Based on the pollutant spreading problem, we will see the possibility of modeling other physical problems.

Research of cavitation processes in the future.

At the same time, I am working on the inclusion of thermal processes in the mathematical model of the dynamic state of the beam.