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**THE TAKING INTO ACCOUNT OF SOME RADIATION
AND MICROPHYSICAL
ELEMENTS IN ATMOSPHERE HUMIDITY PROCESSES**

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The problem about the mesoscale boundary layer of atmosphere (MBLA) is considered with taking into account of a cloud- and fogformation. The influence is investigated of cooling process near boundaries of clouds and fogs on MBLA meteofields.

The influence is studied of simulated clouds "shades" on MBLA processes. It is discussed a possibility autooscillation and an direct- and back-coupling between of radiation and cloudform processes.

It is considered clouds microphysical and electrical processes with using of a small and big drops diffusion equation .