

VERTICAL DISTRIBUTION OF SOLID POLLUTANTS IN SARAJEVO

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The concentration of air pollutants in Sarajevo basin is determined by the pollution from emission zones, and also by the meteorological conditions of the atmosphere, especially during the colder period of the year. Sarajevo basin, as well as all the other morphological depression forms that are basins, are poorly aerated when compared to open morph forms, especially plateaus. In addition, the basins are characterized by thermal inversions during the colder period of the year, of which the most important ones are those that occur with the descending of cold air masses down the mountain slopes into the bottom of the Sarajevo basin. They are combined with radiation inversions, accompanied by the fogs of the same name and can last for several days and weeks in the Sarajevo basin.

During temperature inversions the air is getting richer with pollutants whose concentration often exceeds the allowable limits. These pollutants contain solid pollutants that fall from the air on the surface, which can be covered by the snow that pollutants dirty during the colder period of the year. Snow retains pollutants in situ, at the site of accumulation and without blowing it away. This is reason enough to determine their amount by removing the roof seam layer of snow from a surface unit, filter it in its liquidity and then measure the precipitate.

Keywords: *pollutants, morphological depression, temperature inversions, radiation inversions, inversion of descending air masses, snow, roof seam layer of snow, precipitate.*