

**Fine Dust (PM10) and Benzo(a)Pyrene (B(a)P) in Carinthia**

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***"Abstract"***

*In Carinthia, the air pollutants fine dust (PM10) and benzo(a)pyrene (B(a)P) are registered in accordance with the Austrian Ambient Air Quality Act (IG-L). To that effect, a total of 12 PM10 measuring devices and 4 B(a)P measuring devices were in continuous operation state-wide in 2012 to check compliance with the limit and target values defined for permanent protection of human health. The registered PM10 and B(a)P concentrations indicate strong seasonal and meteorological variance with maximum values during the six months of winter. Limit and/or target values were exceeded mainly in the inner Alpine valleys and basins affected by frequent atmospheric inversions (Lavanttal valley, Klagenfurt basin). In accordance with IG-L, so-called status surveys are to be prepared for these regions for the determination and description of substantial emission sources or emission source groups as well as for emission reduction later in suitable programmes. Here, considerable contributions to air pollutants came mainly from domestic fuel (PM10, B(a)P) and road traffic (PM10), with regard to the formation of secondary aerosols also from the industry and trade sector (PM10).*

