2007 Meteorological measurements
DATA ACCOMPANYING REPORT

The realization of the intensive monitoring program in Bulgaria was organized in 3 stationary areas. The stations are equipped with automatic devices collecting air quality and meteo parameters data.

In order to have differences in the meteorological conditions, these three stationary areas were selected so as to belong to different climatic regions and sub regions and are situated on terrains, differing in altitude and relief. The territories where the monitoring stations were located are attributed to two different climatic regions: Black sea climatic region – Eastern Balkan mountain sub region (site Staro Oriahovo) and Mountainous climatic region –Middle mountain sub region (sites Yundola and Vitinia).

The monitoring activities in 2007 were prepared in compliance with the ICP Forests Manual and comprise the following activities:

- Assessment of meteorological data for air temperature, relative humidity, wind speed and direction, solar radiation and precipitation - meteo parameter values are measured in every 1 hour. Data were downloaded from automated stations every 14 days. The sensor heights for each of monitored meteo parameters are as follows:

  1. Sensors for air temperature, wind speed and direction and solar radiation – 9 m sampling height;
  2. Sensor for relative humidity – 3 m sampling height;
  3. Sensor for precipitation – 3 m sampling height.

- Validation of the data

The technical problems with some of sensors lead to high % lack of data. Therefore, 2007 meteorological data for precipitations will be reported with blank for field "meam/sum", since the required % of data is not covered.

The present submission report for meteorological data is based on the following % of validated data:

- Vitinia (0001) – 95.9% for air temperature (AT), 81.6% for humidity (RH), 95% for wind speed (WS), 98% for solar radiation (SR) and 98% for wind direction (WD);

- Staro Oriahovo (0002) – 98% for AT, 98% for RH, 98% for solar radiation (SR),. 67.1% for WS and 67.1% for WD;

- Yundola (0003) – 99% for AT, 99% for RH, 99% for solar radiation (SR), 86% for WS and 86% for WD.