

## ANNEX VIII

Criteria for classifying and locating sampling points for assessments of ozone concentrations  
A. Macroscale siting

| Type of station | Objectives of measurement   | Representativeness <sup>a</sup> | Macroscale siting criteria   |
|-----------------|---|---------------------------------|--|
| Urban           | Protection of human health:<br>to assess the exposure of the urban population to ozone, i.e. where population density and ozone concentration are relatively high and representative of the exposure of the general population  | A few km <sup>2</sup>           | Away from the influence of local emissions such as traffic, petrol stations, etc.;<br>vented locations where well mixed levels can be measured;<br>locations such as residential and commercial areas of cities, parks (away from the trees), big streets or squares with very little or no traffic, open areas characteristic of educational, sports or recreation facilities   |
| Suburban        | Protection of human health and vegetation:<br>to assess the exposure of the population and vegetation located in the outskirts of the agglomeration, where the highest ozone levels, to which the population and vegetation are likely to be directly or indirectly exposed occur | Some tens of km <sup>2</sup>    | At a certain distance from the area of maximum emissions, downwind following the main wind direction/directions during conditions favourable to ozone formation;<br>where population, sensitive crops or natural ecosystems located in the outer fringe of an agglomeration are exposed to high ozone levels;<br>where appropriate, some suburban stations also upwind of the area of maximum emissions, in order to determine the |

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<sup>a</sup> Sampling points should, where possible, be representative of similar locations not in their immediate vicinity.

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|                  |  |   |  |
|------------------|--|---|--|
|                  |  |   | regional background levels of ozone  |
| Rural            | Protection of human health and vegetation: to assess the exposure of population, crops and natural ecosystems to sub-regional scale ozone concentrations                       | Sub-regional levels (some hundreds of km <sup>2</sup> )                 | Stations can be located in small settlements and/or areas with natural ecosystems, forests or crops; representative for ozone away from the influence of immediate local emissions such as industrial installations and roads; at open area sites, but not on summits of higher mountains  |
| Rural background | Protection of vegetation and human health: to assess the exposure of crops and natural ecosystems to regional-scale ozone concentrations as well as exposure of the population | Regional/national/continental levels (1 000 to 10 000 km <sup>2</sup> ) | Station located in areas with lower population density, e.g. with natural ecosystems, forests, at a distance of at least 20 km from urban and industrial areas and away from local emissions; avoid locations which are subject to locally enhanced formation of ground-near inversion conditions, also summits of higher mountains; coastal sites with pronounced diurnal wind cycles of local character are not recommended. |

**a** Sampling points should, where possible, be representative of similar locations not in their immediate vicinity.

For rural and rural background stations the location shall, where appropriate, be coordinated with the monitoring requirements of Commission Regulation (EC) No 1737/2006 of 7 November 2006 laying down detailed rules for the implementation of Regulation (EC) No 2152/2003 of the European Parliament and of the Council concerning monitoring of forests and environmental interactions in the Community<sup>(1)</sup>.

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(1) OJ L 334, 30.11.2006, p. 1.