BULGARIAN DATA
ACCOMPANYING REPORT

Assessment of ground vegetation

In order to implement the planned activities for 2010 and apply the new methodological approaches, the project has been implemented at 3 sample plots – SP Vitinia, SP St. Oriahovo, and SP Yundola. In accordance with the adopted methodological approach, the size of the studied sites was increased from 2 to 4 square meters, with total area of 400 square meters.

- **The phytocenotical survey in SP Vitinia** was carried out in the second half of June 2010.

In the zone of brush-grass synusias was also reported involvement of young samplings of *Fagus sylvatica*. In the most of subplots from the area of brush synusia predominant species is *Rubus hirtus L*. In the area of grass synusia from the sour- and wheatgrass group predominate *Festuca drymeja Mert. Et Koch.* and *Luzula luzuloides (Lam.) Dandy*. In some of assessed areas was found *Calamagrostis arundinacea (L.) Roth*. and *Poa nemoralis L*.. Some species from grass functional group (*Galium pseudoaristatum Schur., Galeopsis speciosa Mill., Physospermum cornubiense (L.) DC* and *Pteridium aquilinum Kuhn*.) have a significant precipitation in single of the assessed areas.

The occurrence of the two main species of the undergrowth *Fagus sylvatica L*. and *Carpinus betulus L.* is about 70-80 %, as the phytocenotic importance of the common beech is twice higher than the importance of the common hornbeam.

- **The phytocenotical survey in SP Staro Oriahovo** was conducted in the end of May 2010. The undergrowth occurs in the area of brush-grass synusia.

In the grass phytocenotic horizon from the group of wheat and sour grasses predominant species are *Carex muricata L., Dactylis glomerata L*. and *Poa nemoralis L.,* and in some of the sample subplots the participation of *Brachipodium sylvaticum (Huds) Beauv*. is significant. In the group of miscellaneous herbs on some subplots the participation of the species *Lapsana communis L., Lathyrus laxiflorus (Desf.) O. Kruntze, Mycelis muralis (L.) Dum.* and *Veronica chamaedrys L*. is also significant.

- **The phytocenotical survey in SP Yundola** was carried out in the beginning of June 2010.

The undergrowth occurs in the area of shrub-grass synusia.

In the grass phytocenotic horizon from the group of wheat and sour grasses predominant species are *Luzula sylvatica (Huds.) Gand*., and predominant species from the group of miscellaneous herbs are *Galium odoratum (L.) Scop.* and *Oxalis acetosella L.* In the outlined fragments of the moss phytocenotic horizon dominant species is *Pleurozium schreberi (Brid.) Mitt.*

The predominant species in the undergrowth area is *Quercus frainetto Ten*. The coverage of this species varies between 5 and 30% in occurrence of 100%. There is no clearly defined predominant species in the area of the brush phytocenotic horizon from the group of brushes.