Bulgaria

Assessment of ground vegetation

In order to implement the planned activities for 2015, the intensive monitoring program has been carried out at 3 sample plots – SP Vitinia, SP St. Oryahovo, and SP Yundola. In accordance with the adopted methodological approach, the size of the studied subplots was increased from 1 to 40 square meters, with total survey area of 400 square meters.

Floristic composition and phytocoenotic structure

- **The phytocenotical survey in SP Vitinia** was carried out in the end of July 2015.

The determined changes in the coverage and occurrence of species in 2015, compared to the average indices for the last 10 years, were assessed as natural ecotopic and phytocyclic fluctuations of vegetation. In 2015, no presence of the species *Veronica chamaedrys*, *Myosotis sylvatica* and *Symphytum tuberosum* was determined in the plant communities. The species *Genista tinctoria*, *Lathyrus laxiflorus* and *Potentilla micrantha* were present in the composition of individual groups.

- **The phytocenotical survey in SP Yundola** was carried out in the end of July 2015.

The determined changes in the quantitative proportions of the species in the shrub-grass synusia in 2015, compared to the average indices for the previous 10 years, were assessed as natural fluctuations with partially anthropogenic impact.

In 2015 no presence of the species *Orthilia secunda* (L.) *House, Polygonatum verticilllatum* (L.) All. *u Viola riviniana Reich.* (L.) was determined*; Luzula luzuloides* was present in one group.

- **The phytocenotical survey in SP Staro Oryahovo** was conducted in the last decade of August 2015.

The determined changes in the coverage and occurrence of species in 2015, compared to the average indices for the last 10 years, were assessed as natural fluctuations with partially anthropogenic impact.

Lysimachia nummularia L., Staro Oryahovo

In 2015, no presence of the species *Alliaria petiolata* (Bieb.) Cavara et Grande, *Arabis sagittata* (Bertol.) DC., *Myosotys sylvatica* Hoffm. was determined in the plant communities, and the species *Quercus cerris* L., *Prunus cerasifera* , *Galium pseudoaristatum* и *Cardamine bulbifera* were present in the composition of individual groups.