

Project Update: December 2014

For Europe there are approximately 50 endemic *Knautia* taxa. Beside already listed species that are endemic for Bosnia according to the List for the Red book of Flora of Federation B&H and Red Book of Flora Republika Srpska (9 taxa, marked green) there are several species that could be possibly found on in B&H that are according to Flora Europea distributed in former Yugoslavia (Marked yellow).

***Knautia adriatica* Ehrend.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *adriatica*

Rank: species

Reference: Bot. Jour. Linn. Soc. 71: 40 (1975)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia albanica* Briq.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *albanica*

Rank: species

Reference: Annu. Cons. Jard. Bot. Genève 6: 125 (1902)

Name status: **Accepted**

Distribution: Al Ju

Endemic

***Knautia ambigua* Boiss. & Orph.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *ambigua*

Rank: species

Reference: Diagn. Pl. Or. Nov. 3(6): 95 (1859)

Name status: **Accepted**

Synonym(s): *Knautia rechingeri* Szabó; *Trichera ambigua* (Friv.) Nyman

Distribution: Bu Gr Ju

Endemic

***Knautia clementii* (Beck) Ehrend.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *clementii*

Rank: species

Reference: Österr. Bot. Zeitschr. 109: 337 (1962)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia dalmatica* Beck**

Family: Dipsacaceae

Genus: *Knautia*

Species: *dalmatica*

Rank: species

Reference: Ann. Naturh. Mus. (Wien) 9: 352 (1894)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia dinarica* (Murb.) Borbás**

Family: Dipsacaceae

Genus: *Knautia*

Species: *dinarica*

Rank: species

Reference: Österr. Bot. Zeitschr. 44: 399 (1894)

Name status: **Accepted**

Distribution: Al Bu It Ju

Endemic

***Knautia dipsacifolia* Kreutzer**

Family: Dipsacaceae

Genus: *Knautia*

Species: *dipsacifolia*

Rank: species

Reference: Anthochron. Pl. Eur. Med. 223 (1840)

Name status: **Accepted**

Synonym(s): *Knautia sylvatica* (L.) Duby, nom. ambig. var. *Sylvatica*; *Trichera sylvatica* (L.) Schrad., nom. ambig. pro parte; *Knautia chabertii* Szabó; *Scabiosa dipsacifolia* Schrank; *Knautia sylvatica* (L.) Duby, nom. ambig.; *Knautia arvensis* (L.) Coult. subsp. *sylvatica* (L.) Bonnier & Layens; *Scabiosa dipsacifolia* Host

Distribution: Au Be Cz Ga Ge He Hu It Ju Po Rm Rs(W)

Endemic

***Knautia drymeia* Heuff.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *drymeia*

Rank: species

Reference: Flora (Regensb.) 39: 53 (1856)

Name status: **Accepted**

Synonym(s): *Scabiosa sylvatica* L.; *Trichera sylvatica* (L.) Schrad., nom. ambig. pro parte

Distribution: Al Au Bu Cz Ge Gr He Hu It Ju Rm

Endemic

***Knautia fleischmannii* (Hladnik ex Rchb.) Pacher**

Family: Dipsacaceae

Genus: Knautia
Species: *fleischmannii*
Rank: species
Reference: Jahrb. Naturh. Landesmus. Kärnten 22: 73 (1893)

Name status: **Accepted**

Synonym(s): *Trichera arvensis* (L.) Schrad. subsp. *fleischmannii* (Hladnik ex Rchb.) Nyman;
Knautia rigidiuscula (W.D.J.Koch) Wettst.

Distribution: Ju

Endemic

***Knautia illyrica* Beck**

Family: Dipsacaceae

Genus: Knautia

Species: *illyrica*

Rank: species

Reference: Ann. Naturh. Mus. (Wien) 9: 351 (1894)

Name status: **Accepted**

Synonym(s): *Knautia purpurea* (Vill.) Borbás subsp. *purpurea* var. *illyrica* (Beck) Szabó

Distribution: It Ju

Endemic

***Knautia integrifolia* (L.) Bertol.**

Family: Dipsacaceae

Genus: Knautia

Species: *integrifolia*

Rank: species

Reference: Fl. Ital. 2: 32 (1835)

Name status: **Accepted**

Synonym(s): *Trichera bidens* (Sibth. & Sm.) Nyman; *Trichera hybrida* (All.) Roem. & Schult.;
Knautia granatensis Pau; *Knautia urvillei* Coult.; *Knautia hybrida* (All.) Coult.

Distribution: Al Bl Bu Co Cr Ga Gr Hs It Ju Sa Si Tu

***Knautia longifolia* (Waldst. & Kit.) W.D.J.Koch**

Family: Dipsacaceae

Genus: Knautia

Species: *longifolia*

Rank: species

Reference: Syn. Fl. Germ. ed. 1 343 (1835)

Name status: **Accepted**

Synonym(s): *Trichera longifolia* (W.D.J.Koch) Nyman; *Knautia csikii* Jáv. & Szabó; *Knautia arvensis* (L.) Coult. subsp. *kochii* (Brügger) Rouy; *Knautia lucidifolia* Sennen & Pau; *Knautia kochii* Brügger; *Knautia brachytrichia* Briq.; *Knautia javorkae* Szabó

Distribution: Al Au Gr It Ju Rm Rs(W)

Endemic

***Knautia macedonica* Griseb.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *macedonica*

Rank: species

Reference: Spicil. Fl. Rumel. 2: 178 (1846)

Name status: **Accepted**

Synonym(s): *Trichera macedonia* (Griseb.) Nyman; *Knautia atrorubens* Janka ex D.BrândzaŞK

Distribution: Al Bu ?Gr Ju Rm

Endemic

***Knautia midzorensis* Formánek**

Family: Dipsacaceae

Genus: *Knautia*

Species: *midzorensis*

Rank: species

Reference: Deutsche Bot. Monatsschr. 16: 19 (1898)

Name status: **Accepted**

Distribution: ?Al Bu ?Gr Ju

Endemic

***Knautia pancicii* Szabó**

Family: Dipsacaceae

Genus: *Knautia*

Species: *pancicii*

Rank: species

Reference: Math. Term. Közl. 31: 376 (1911)

Name status: **Accepted**

Synonym(s): *Knautia midzorensis* Formánek var. *pancicii* (Szabó) Hayek

Distribution: Ju

Endemic

***Knautia pectinata* Ehrend.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *pectinata*

Rank: species

Reference: Österr. Bot. Zeitschr. 109: 336 (1962)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia ressmannii* (Pacher) Briq.**

Family: Dipsacaceae

Genus: *Knautia*

Species: *ressmannii*

Rank: species

Reference: Annu. Cons. Jard. Bot. Genève 6: 130 (1902)

Name status: **Accepted**

Distribution: It Ju

Endemic

***Knautia sarajevensis* (Beck) Szabó**

Family: Dipsacaceae

Genus: Knautia

Species: sarajevensis

Rank: species

Reference: Bot. Jahrb. 36: 439 (1905)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia travnicensis* (Beck) Szabó**

Family: Dipsacaceae

Genus: Knautia

Species: travnicensis

Rank: species

Reference: Magyar Bot. Lapok 9: 51 (1910)

Name status: **Accepted**

Synonym(s): *Knautia arvensis* (L.) Coult. subsp. *travnicensis* (Beck) Stoj. & Stef.

Distribution: Ju

Endemic

***Knautia velebitica* Szabó**

Family: Dipsacaceae

Genus: Knautia

Species: velebitica

Rank: species

Reference: Magyar Bot. Lapok 9: 50 (1910)

Name status: **Accepted**

Distribution: Ju

Endemic

***Knautia visianii* Szabó**

Family: Dipsacaceae

Genus: Knautia

Species: visianii

Rank: species

Reference: Magyar Bot. Lapok 9: 42 (1910)

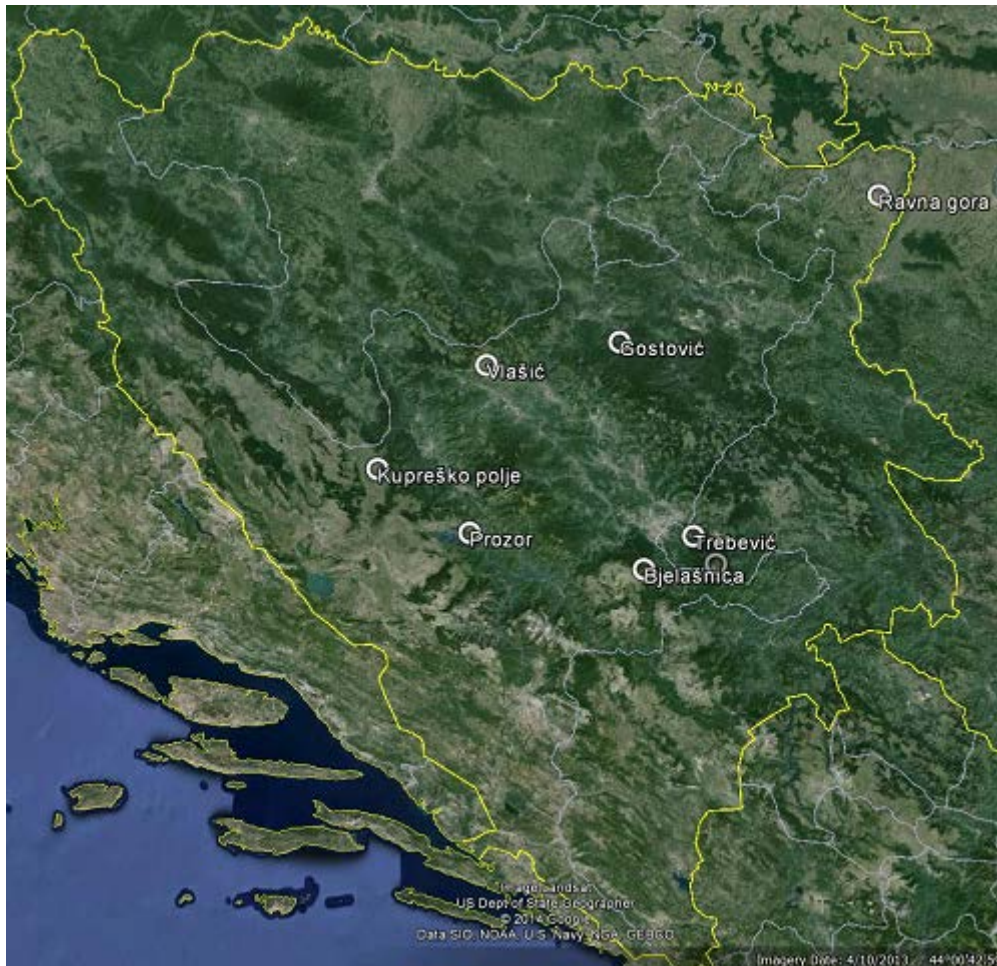
Name status: **Accepted**

Synonym(s): *Knautia purpurea* (Vill.) Borbás subsp. *purpurea* var. *montenegrina* (Beck) Szabó

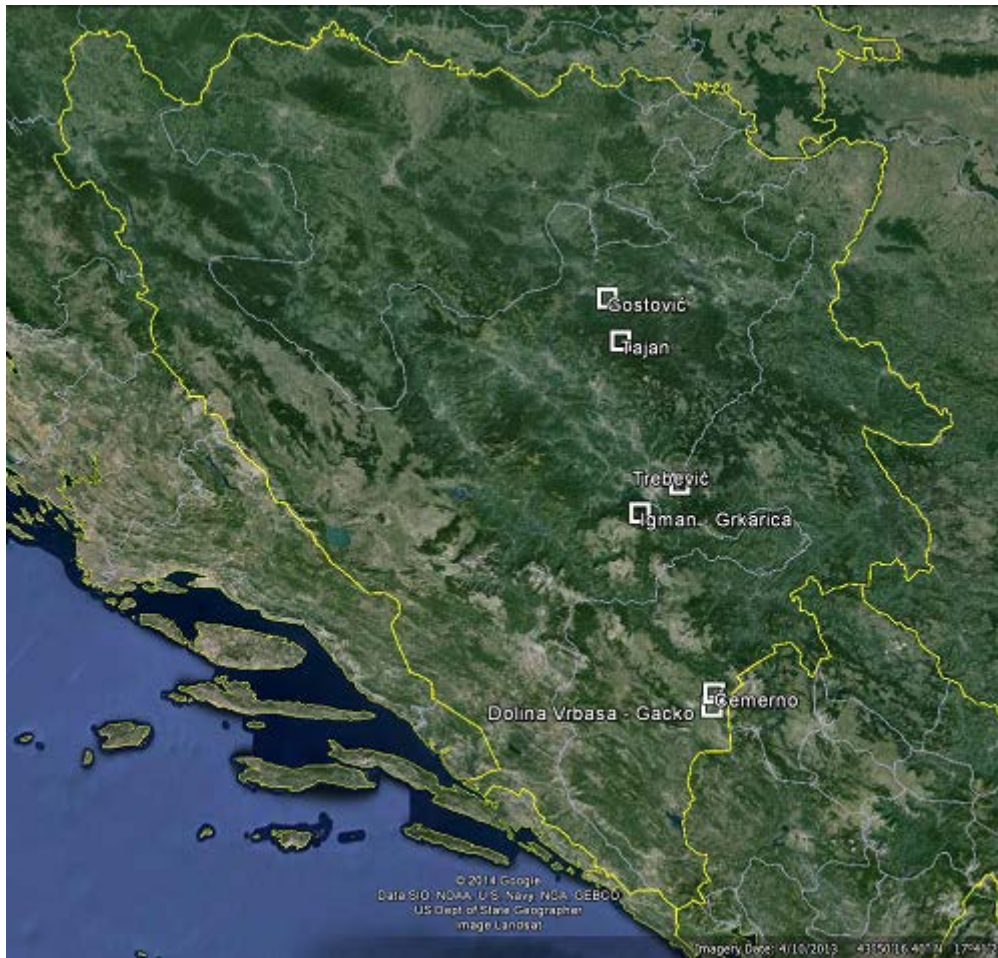
Distribution: Al Ju

Endemic

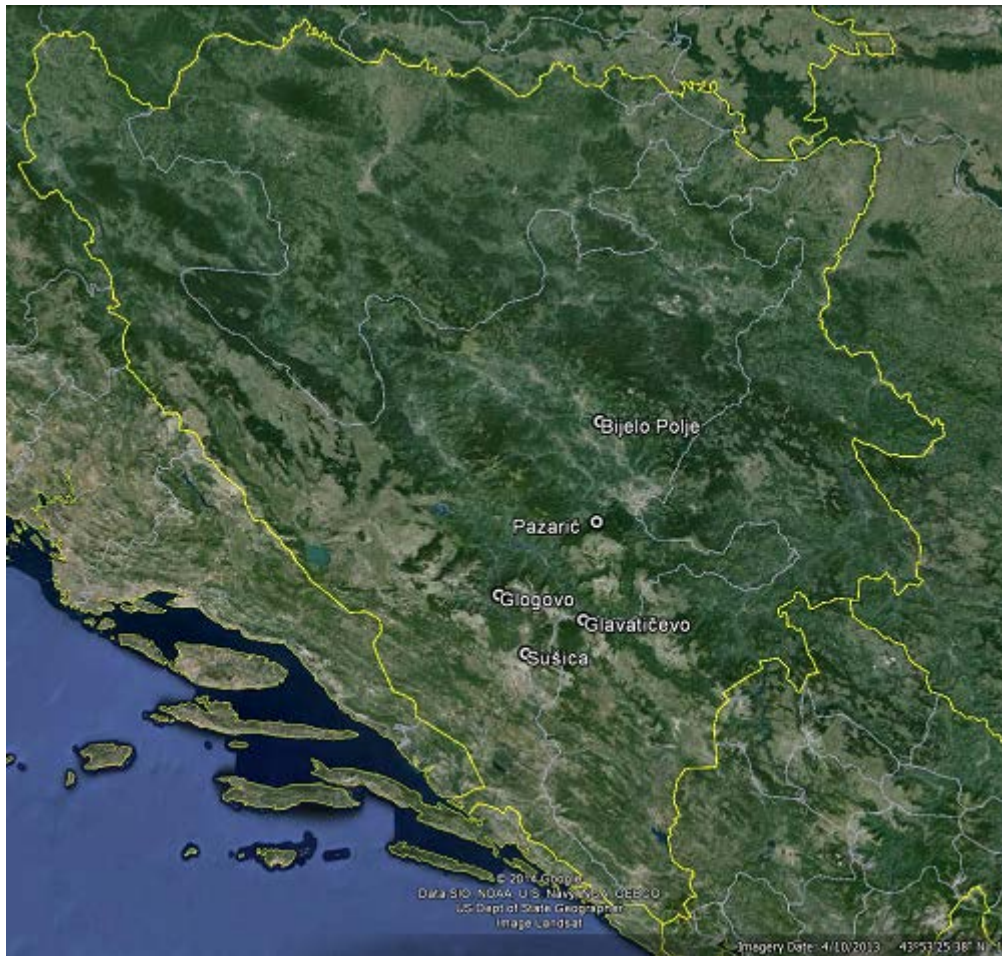
Analysis of Museum *Knautia* specimens we made a map of expected distribution of *Knautia* species in B&H according to the stated localities of collected specimens (NOTE: most of the specimens are very old, some over 100 years)



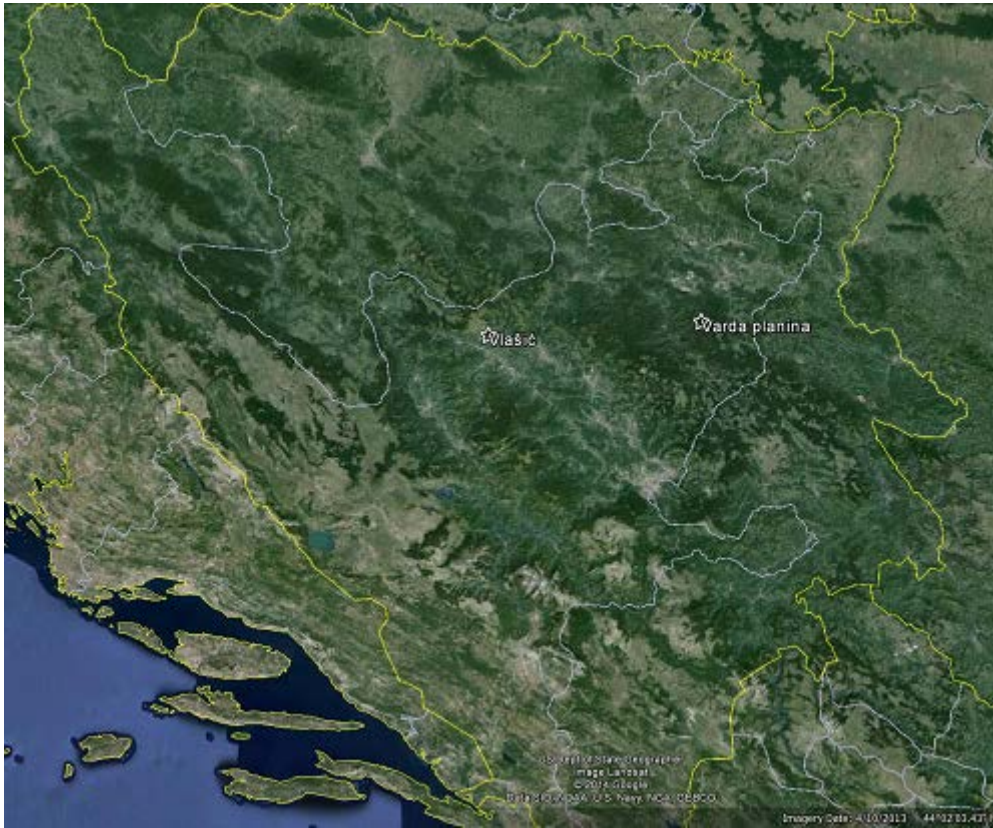
Knautia dinarica



Knautia drymeia



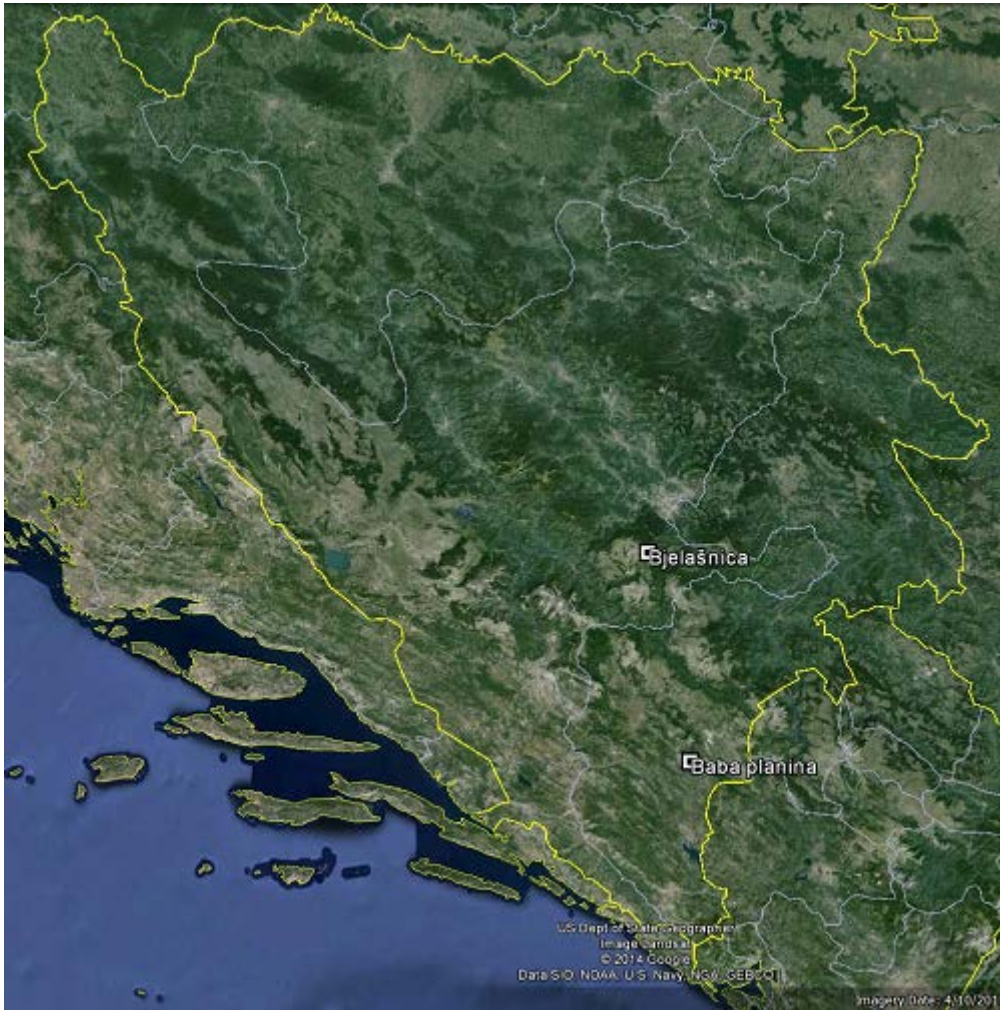
Knautia integrifolia



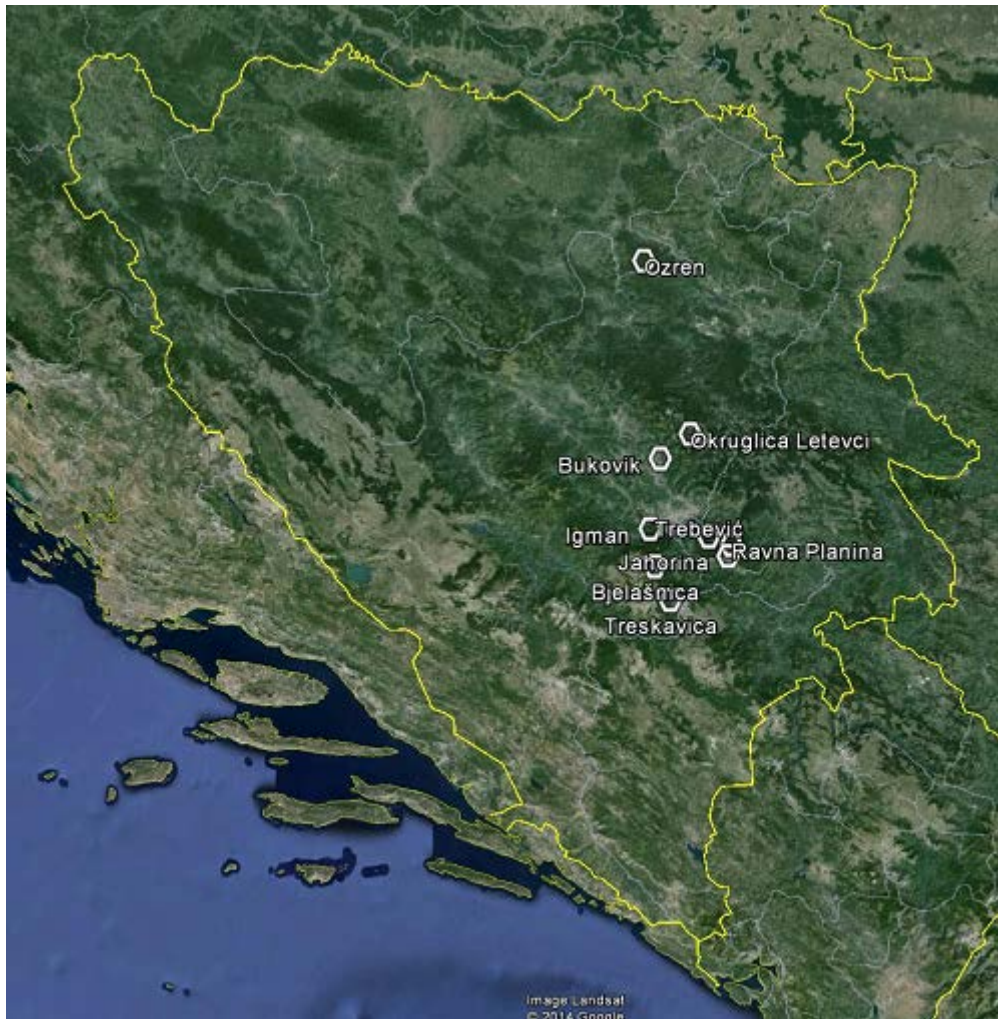
Knautia macedonica



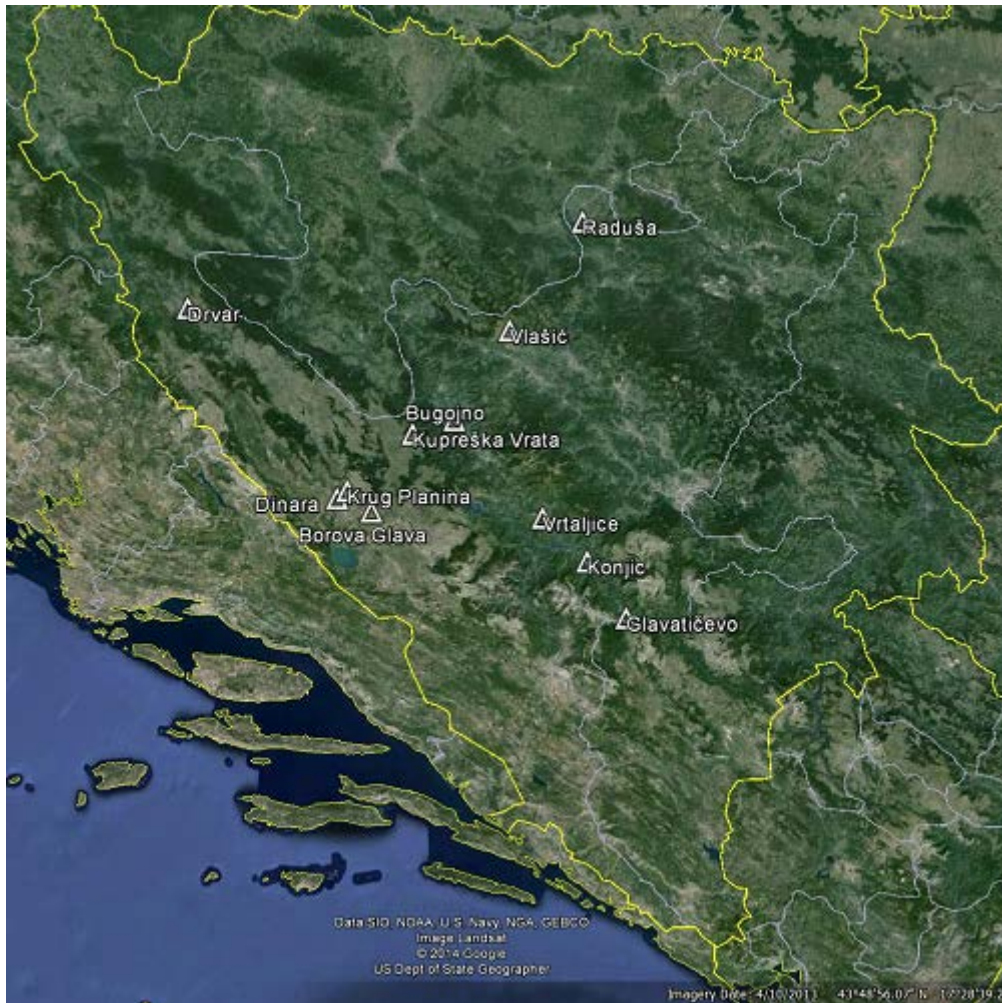
Knautia midzorensis



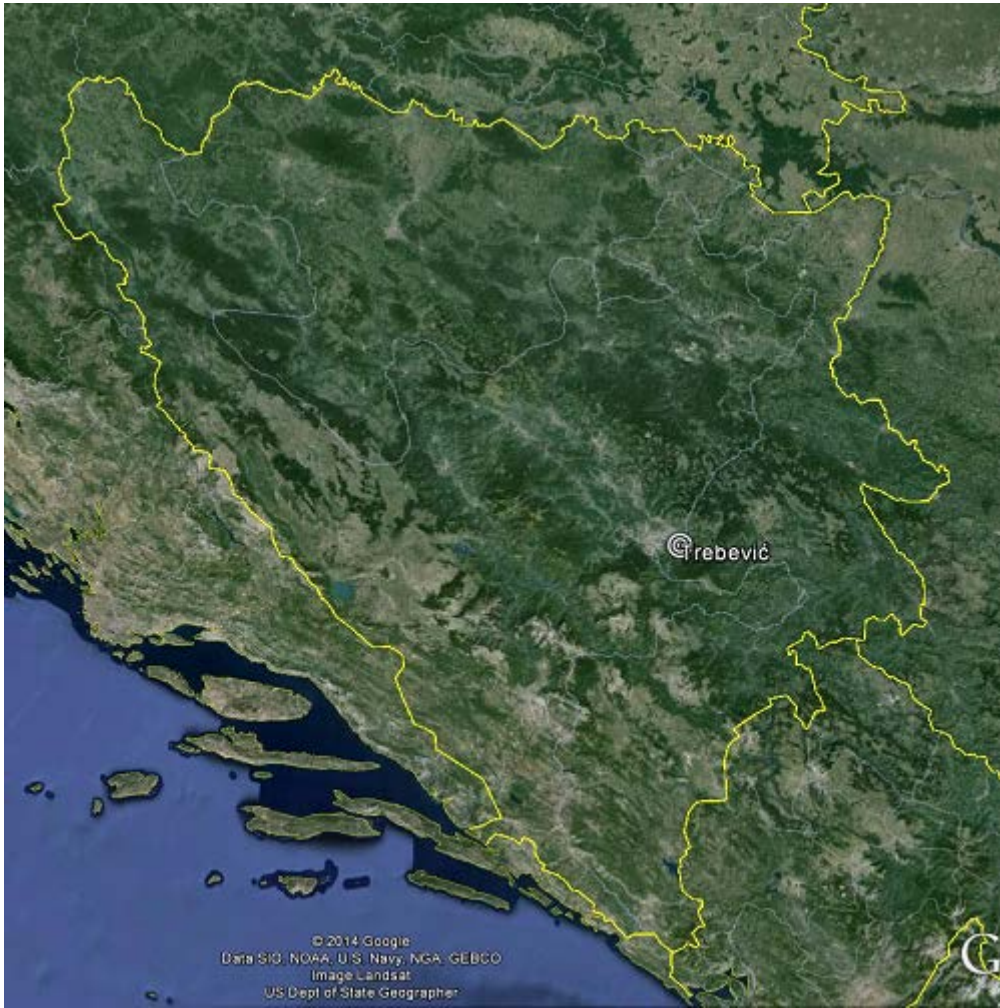
Knautia pancicii



Knautia sarajevensis



Knautia travnicensis



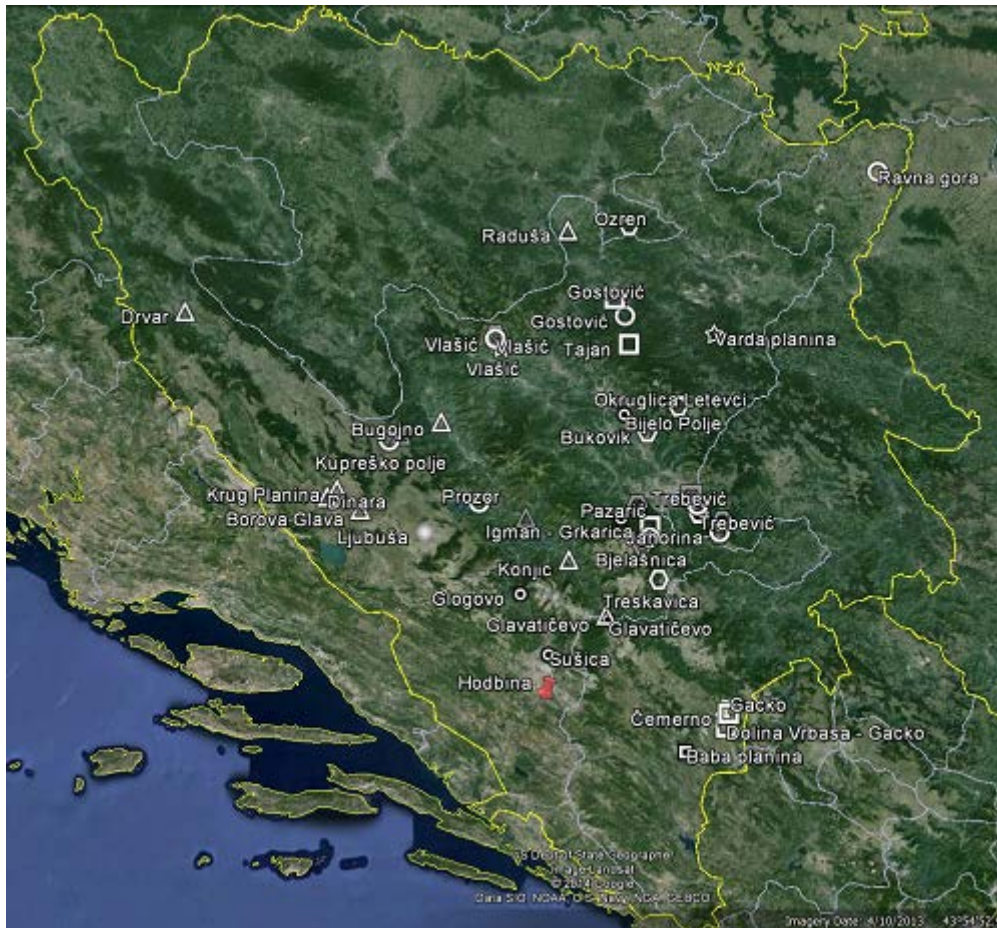
Knautia trebevicensis



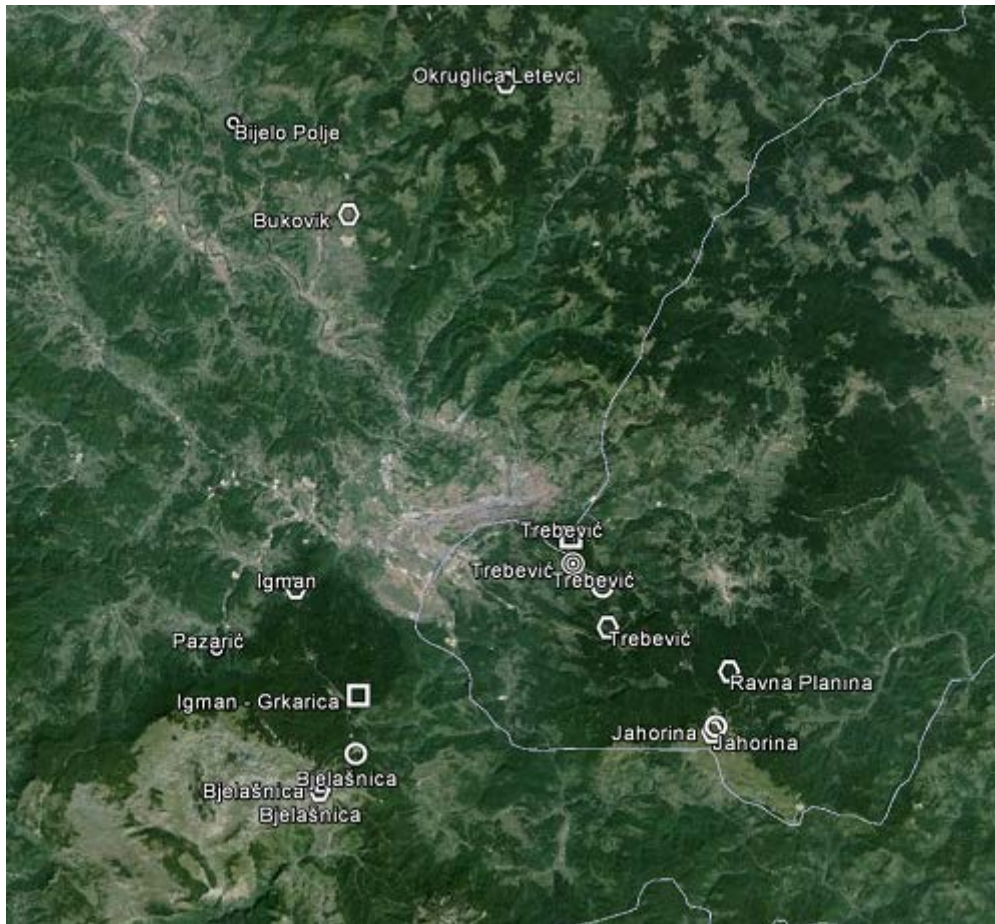
Knautia velebitica



Knautia visianii



All localities of *Knautia* species according to museum specimens in B&H



Localities of *Knautia* species according to museum specimens in Sarajevo's region
(Different species represented by different symbols as indicated on individual species maps)