Silva Gabreta	vol. 7	p. 241–250	Vimperk, 2001

Ecology and distribution of the genus *Hymenochaete* (Basidiomycetes, Hymenochaetaceae) in the Bohemian Forest (the Šumava Mts.)

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Abstract
Six species of *Hymenochaete* (Basidiomycetes, Hymenochaetaceae) have been recorded in the Bohemian Forest (the Šumava Mts.). The occurence of five of them *(Hymenochaete carpatica, H. cinnamomea, H. cruenta, H. fuliginosa* and *H. tabacina)* was confirmed in the recent time (the 1990s). One remaining species *Hymenochaete crocata* was found in the Bohemian Forest in the mid-20th century. The ecology and distribution of the species is described. Maps demonstrate the recent distribution *Hymenochaete* species in the Bohemian Forest.

Key words: Basidiomycetes, *Hymenochaete*, substrate, altitude, distribution in the Bohemian Forest, list of records

Introduction

Genus *Hymenochaete* is a member of the large group of non-gilled lignicolous fungi that are growing on dead and in some cases also living trees and are very important for wood decomposition.

Hymenochaete Lév. is characterised by annual, resupinate to effused-reflexed or pileate basidiocarp and smooth hymenium. The colour of the basidiocarp is ochre, purple, yellowish brown, brown or dark brown. Basidiocarp is turning black in KOH. Long, smooth, dark setae are present in hymenium, in a few species also in trama. Trama layer is present or absent. Basidiospores are ovoid, broadly ellipsoid or allantoid, hyaline and thin-walled. Hyphal system is monomitic or dimitic. Hyphae are simple septate (without clamps), yellow to brown, often thick-walled. *Hymenochaete* is distributed all over the world and 9 species have been recorded in the Czech Republic: *Hymenochaete carpatica, H. cinnamomea, H. crocata, H. cruenta, H. corrugata, H. fuliginosa, H. rubiginosa, H. subfuliginosa* and *H. tabacina* (unpublished data from herbarium PRM).

Material and Methods

This paper is based on the author's diploma thesis (Tomšovský 2000) covering finds from the years 1997–1999. Some records originate from the excursions made together with J. Holec and Z. Pouzar. During the field work fungi were collected and essential data on their host and habitat were recorded. Dried fruitbodies are deposited in the herbarium of the Mycological

Department, National Museum in Prague (PRM). Fungi found and identified by the author are initialed MT.

Data collected by author were complemented with unpublished specimens deposited in herbarium of the National Museum, Prague (PRM), one specimen in Herbarium of Department of Botany, Charles University, Prague (PRC).

Some specimens found by J. Holec are signed with abbreviation JH followed by the number of the record in his field notebook. These specimens are deposited in PRM, but they do not have the PRM number yet.

Some recorded finds that are not deposited in any herbarium are signed with abbreviation *not.* instead of *leg.* (KOTLABA 1999). The distribution, substrate specificity, altitude range and vegetation preference of each species are evaluated. Distribution of the species is discussed with data published by LUSCHKA (1993) from the Bavarian forest (the German part of the Šumava Mts).

Verbal characteristics of species distribution are supplemented by maps. The maps describe contemporary distribution of species. Records found earlier than 1990 are not included in the maps.

RESULTS AND DISCUSSION

Hymenochaete carpatica Pilát

Number of records: 53 records from 44 localities; 2 records from 1 locality before year 1990 were published by PILÁT (1933).

Substrate: Species grows only on the chips of bark (rhytidomata) of old trees of *Acer pseudoplatanus*. Most of the collected fruitbodies were observed on the internal side of rhytidomata and only a few of them were found on the external or on the both sides of the bark. No information about growth on the other species of *Acer* or some other genera of tree is available (TOMŠOVSKÝ 2001).

Vertical distribution: Altitude 600–1220 m a.s.l.

Distribution in the Bohemian Forest: *H. carpatica* is distributed in whole area of the Bohemian Forest (Fig. 1.).

Results and discussion: *Hymenochaete carpatica* occurs almost in all the localities with the available substrate. Other factors (altitude, naturalness of vegetation) seem not to be important for the occurrence of the species. Most finds are from mixed montane forests or scree and ravine forests. *Hymenochaete carpatica* is also recorded on the old solitary growing trees in villages and along roads.

The species is not mentioned by LUSCHKA (1993), but abundant records from Bavarian forest are published by KRIEGLSTEINER (1993).

Records: České Žleby, Kapraď Mt., 980 m a.s.l., leg. et det. MT, 22 Sep. 1998, PRM 893833. – České Žleby, Kostelní cesta pathway, 940 m a.s.l., leg. et det. J. Holec, 3 Sep. 1999, JH 139/99. – České Žleby, Radvanovický hřbet Mt., 890 m a.s.l., leg. et det. MT, 8 Oct. 1998, PRM 893825; ibid., 900 m a.s.l., PRM 893820; ibid., 900 m a.s.l., leg. et det. J. Holec, 17 Oct. 1997, JH 866/97; ibid., 930 m a.s.l., JH 877/97. – České Žleby, Spáleniště Mt., 930 m a.s.l., leg. et det. Z. Pouzar, 22 Oct. 1998, PRM 893816; ibid., 880 m a.s.l., leg. et det. J. Holec, 13 Oct. 1997, JH 750/97. – České Žleby, Žlebský kopec hill, 1000 m a.s.l., leg. et det. MT, 13 Sep. 1999, PRM 894010. – Horská Kvilda, Pěnivý potok brook , 950 m a.s.l., leg. et det. J. Holec, 1 July 1999, JH 74/99. – Horská Kvilda, Zhůří, 1140 m a.s.l., leg. et det. MT, 19 Sep. 1999, PRM 894022. – Kvilda, Orel, 1140 m a.s.l., leg. et det. J. Holec, 6 Oct. 1998, PRM 897494. – Modrava, Rokyta, 920 m a.s.l., leg. et det. MT, 30 June 1999, PRM 893817. – Nová Pec, Chornice, 960 m a.s.l., leg. et det. MT, 22 June 1999, PRM 894182. – Nová Pec, Rakouská cesta pathway, border stone No. 1/10, 1040 m a.s.l., leg. et det. MT, 22 June 1999, PRM 894183. – Nová Pec, Smrčina Mt., 1140 m a.s.l., leg. et det. J. Holec, 25 Sep. 1997, PRM 891333. – Nová Pec, Smrčina Mt., 1180 m a.s.l., leg. et det. MT, 4 June 1998, PRM 893830; ibid.,1200 m a.s.l., PRM

893823; ibid., 1010 m a.s.l., PRM 893819. – Nová Pec, village, 795 m a.s.l., leg. et det. MT, 22 June 1999, PRM 893822. – Prášily, Formberg, 950 m a.s.l., leg. et det. MT, 10 June 1999, PRM 894013. Prášily, village, 880 m a.s.l., leg. et det. MT, 26 Aug. 1998, PRM 893832. – Prášily, village, 950 m a.s.l., leg. et det. F. Kotlaba, 5 Aug. 1998, PRM 8922710. – Prášily, Stodůlky, 850 m a.s.l., leg. et det. MT, 12 June 1999, PRM 894015. – Prášily, Žďanidla Mt., 1220 m a.s.l., leg. et det. MT, 9 July 1998, PRM 894055; ibid., 1190 m a.s.l., PRM 894011; ibid., 1140 m a.s.l., PRM 894017. – Srní, Povydří, 680 m a.s.l., leg. et det. J. Holec, 8 Oct. 1997, JH 633/97. – Srní, Povydří, 920 m a.s.l., leg. et det. MT, 28 June 1999, PRM 893818; ibid., 750 m a.s.l., 24 Sep. 1998, PRM 893826. – Srní, Povydří, Horní Hrádky, 900 m a.s.l., leg. et det. MT, 30 June 1999, PRM 893827. – Srní, Povydří, Hrádecký potok brook, 800 m a.s.l., leg. et det. MT, 30 June 1999, PRM 893828. – Srní, Zadní Paště, 810 m a.s.l., leg. et det. MT, 14 June 1999, PRM 893823. – Stožec, Medvědice, 900 m a.s.l., leg. et det. MT, 14 Apr. 2000, PRM 895087.– Stožec, Stožecká skála rock, 976 m a.s.l., leg. et det. MT, 23 June 1999, PRM 893821. – Stožec, Světlá brook, 860 m a.s.l., leg. et det. MT, 23 June 1999, PRM 893831. – Strážný, village, 840 m a.s.l., leg. et det. MT, 23 Sep. 1999, PRM 894019. – Zátoň, Boubín-Pažení, 1100 m a.s.l., leg. et det. J. Holec, 10 July 1998, PRM 896998. – Zátoň, Jilmová skála hill, 960 m a.s.l., leg. et det. MT, 13 Oct. 1998, PRM 894023; ibid., 1000 m a.s.l., leg. et det. J. Holec et Z. Pouzar, 16 Oct. 1996, PRM 889509. – Železná Ruda, Černé Lake, August 1926, leg. A. Hilitzer, det. A. Pilát, PRM 686735; ibid., 1926, PRM 686736. – Železná Ruda, Medvědí jámy, 850 m a.s.l., leg. et det. J. Holec, 16 June 1997, JH 16/97. – Železná Ruda, Debrník, avenue, 800 m a.s.l., leg. et det. MT, 24 Aug. 1998, PRM 894021; ibid., 7 Aug. 1998, PRM 894020. – Železná Ruda, Debrník, mixed forest, 800 m a.s.l., leg. et det. J. Holec, 15 Oct. 1997, JH 811/97. – Železná Ruda, Ferdinandovo údolí valley, 740 m a.s.l., leg. et det. MT, 8 Aug. 1998, PRM 894014; ibid., 850 m a.s.l., leg. et det. J. Holec, 16 June 1997, PRM 890902. – Železná Ruda, by the road to Špičák, 760 m a.s.l., leg. et det. MT, 25 Aug. 1998, PRM 894018. – Železná Ruda, Pancíř Mt., 1110 m a.s.l., leg. et det. MT, 27 Aug. 1999, PRM 894016. – Želnava, Černý les forest, 900 m a.s.l., leg. et det. MT, 24 June 1999, PRM 893824.

***Hymenochaete cinnamomea* (Pers.: Fr.) Bresadola (=*Hymenochaete arida* (Karst.) Sacc.)**

Number of records: 6 records from 5 localities (1 record before year 1990).

Substrate: Fallen trunks of hardwood trees – the most often *Corylus avellana* (4 records), then *Populus tremula, Prunus spinosa, Salix caprea* and *Ulmus glabra*. The fungus was recorded on 5 host species in the Bohemian Forest and its foothills.

Vertical distribution: Altitude 600–1000 m a.s.l.

Distribution in the Bohemian Forest: Only one locality of *Hymenochaete cinnamomea* is known in the Bohemian Forest. The rest of specimen was recorded in the Bohemian Forest foothills – in Javornická hornatina hills and in Opolenec nature reserve near Vimperk (Fig. 2.).

Results and discussion: *Hymenochaete cinnamomea* is very rare in the Bohemian Forest. The most finds of the species in the Czech Republic were collected in the central Bohemia in localities with thermophilic vegetation. so the record at 990 m a.s.l. is quite surprising. The species has not been recorded yet in Bavarian forest (Luschka 1993).

Records: Horní Vltavice, *Corylus avellana*, 19 Sep. 1948, leg. et det. M. Svrček, PRM 833903. – Strašín, Nahořánky, 737 m a.s.l., *Corylus avellana*, 20 Aug. 1997, leg. et det. M. Svrček, PRM 891733; ibid. 17 Sep. 1997, PRM 891708. – Strašín, Zábrdí, 737 m a.s.l., *Populus tremula*, 21 Oct. 1997, leg. et det. M. Svrček, PRM 891746. – Sudslavice, Opolenec, 620 m a.s.l., *Corylus avellana*, 14 Oct. 1997, leg. et det. J. Holec, JH 766/97. – Zátoň, Jilmová skála rock, 990 m a.s.l., *Ulmus glabra*, 13 Oct. 1998, leg. et det. Z. Pouzar, PRM.

***Hymenochaete crocata* (Fr.) Lév.**

The species was not collected in the Bohemian Forest in the 1990s, but two older records are known from this area. Most of known specimens from the Czech Republic were collected in central Bohemia, in an area of thermophilic vegetation.

The distribution of the species is not known well. Most authors of cited literature (e.g. Léger 1998) include the species in its relative *H. tabacina*, but according to Corfixen *H. crocata* is a different species that differs from *H. tabacina* in following features (Corfixen – pers. comm.): The colour of *H. crocata* is more orange, borderline between trama and trichocutis is lacking; setae are shorter and not eroded on the tips, some setae are dome-shaped.

Records: Horní Planá, Hůrka, 730 m a.s.l., *Sorbus aucuparia*, 17 Sep. 1955, leg. F. Kotlaba, det. P. Corfixen,

PRM 516714. – Horní Vltavice, *Corylus avellana*, 19 Sep. 1948, leg. M. Svrček, det. P. Corfixen, PRM 756929.

Hymenochaete cruenta (Pers.: Fr.) Donk (=*Hymenochaete mougeotii* (Fr.) Cooke)

Number of records: 40 records from 30 localities (13 records from 9 localities before year 1990). Some older records were published by KOTLABA (1953).

Substrate: Dead branches and trunks of *Abies alba*. 35% of finds are from fallen branches, 33% from fallen trunks, 12% from dead standing trunks, 5% from dead branches of standing trees, 5% from living trees.

Vertical distribution: Altitude 600–1200 m a.s.l.

Distribution in the Bohemian Forest: *H. cruenta* is distributed in the whole area of the Bohemian Forest. The species is more common in the surroundings of Železná Ruda and in the southern part of the area (Stožecko–Trojmezenská hornatina highland) (Fig. 3.).

Results and discussion: Distribution of *H. cruenta* is influenced mainly by the occurance of the host species. The great number of specimens were collected in the localities with natural composition of the tree species, where *Abies* occurs. Some finds are from forests strongly influenced by man with remaining *Abies* trees. The data on the species in the Bavarian forest (LUSCHKA 1993) resemble data from the Bohemian Forest.

Records: České Žleby, Žlebský kopec hill, 1010 m a.s.l., *Abies alba*, 13 Sep. 1999, leg. et det. MT, PRM 894028. – České Žleby, Radvanovický hřbet Mt., 850 m a.s.l., *Abies alba*, 18 Oct. 1997, leg. et det. J. Holec, JH 886/97. – Horní Planá, Hůrka, *Abies alba*, 23 Sep. 1955, leg. et det. F. Kotlaba, PRM 516539; ibid. PRM 838502. – Nová Pec, Smrčina, 1180 m a.s.l., *Abies alba*, 25 Sep. 1997, leg. et det. J. Holec, PRM 891326; ibid. 1100 m a.s.l., 4 June 1998, not. J. Holec. – Nová Pec, Plešné Lake, 1100 m a.s.l., *Abies alba*, 26 Oct. 1971, leg. et det. F. Kotlaba, PRM 715622. – Nová Pec, Trojmezná Mt., *Abies alba*, 10 May 1968, leg. et det. F. Kotlaba, PRM 654278. – Srní, Dračí skály rocks, 680 m a.s.l., *Abies alba*, 1 July 1999, leg. et det. MT, PRM 893841. – Srní, Povydří, 760 m a.s.l., *Abies alba*, 3 June 1999, leg. et det. J. Holec, JH 36/99. – Srní, Povydří, 700 m a.s.l., *Abies alba*, 11 Oct. 1997, leg. et det. J. Holec, JH 732/97. – Srní, Povydří, 680 m a.s.l., *Abies alba*, 12 Oct. 1998, leg. et det. MT, PRM 894026. Srní, Povydří, 900 m a.s.l., *Abies alba*, 28 June 1999, leg. et det. MT, PRM 893842. – Srní, Povydří, 880 m a.s.l., *Abies alba*, 28 June 1999, leg. et det. MT, PRM. – Srní, Povydří, 730 m a.s.l., *Abies alba*, 9 Oct. 1998, leg. et det. MT, PRM 893843. – Srní, Povydří, 750 m a.s.l., *Abies alba*, 11 Oct. 1997, leg. et det. MT, PRM 894027. – Srní, Povydří – Kramlův mlýn, 700 m a.s.l., *Abies alba*, 1 July 1999, leg. et det. MT, PRM 893840. – Stachy, Popelná hora Mt., *Abies alba*, 15 July 1974, leg. et det. F. Kotlaba, PRM 741817. – Stachy, valley of Losenice river, 950 m a.s.l., *Abies alba*, 19 June 1971, leg. et det. F. Kotlaba, PRM 713593. – Stožec, Kamenná hill, 960 m a.s.l., *Abies alba*, 23 June 1999, leg. et det. MT, PRM. – Zátoň, Boubín primeval forest, *Abies alba*, 18 Sep. 1948, leg. et det. M. Svrček, PRM 833911; ibid. PRM 833912; ibid. leg. M. Svrček et J. Herink, det. J. Herink, PRM 608859; ibid. 12 May 1964, leg. et det. F. Kotlaba et Z. Pouzar, PRM 838508; ibid. 26 Sep. 1967, leg. et det. J. Kubička, PRM 646820. – Zátoň, Zátoňská hora Mt., 970 m a.s.l., *Abies alba*, 20 June 1998, leg. et det. J. Holec, PRM 892441; ibid. 14 Oct. 1996, PRM 889526. – Zátoň, Jilmová skála Mt., 1010 m a.s.l., *Abies alba*, 13 Oct. 1998, leg. et det. MT, PRM 894184. – Zátoň, Kaplické jezírko lake, *Abies alba*, 21 June 1959, leg. et det. F. Kotlaba, PRM 515828. – Železná Ruda, Pancíř Mt., 1030 m a.s.l., *Abies alba*, 27 Aug. 1998, leg. et det. MT, PRM 893839. – Železná Ruda, Medvědí jámy, 970 m a.s.l., *Abies alba*, 9 July 1996, leg. et det. F. Kotlaba, PRM 889717. – Železná Ruda, Ferdinandovo údolí valley, *Abies alba*, 14 Sep. 1926, leg. et det. K. Kavina, PRM 621056. – Železná Ruda, Černé Lake, *Abies alba*, 17 Sep. 1964, leg. et det. F. Kotlaba a Z. Pouzar, PRM 838485. – Železná Ruda, Debrník, *Abies alba*, 9 July 1996, leg. et det. F. Kotlaba, PRM 889717. – Železná Ruda, way from Špičák to Černé Lake, *Abies alba*, 15 May 1990, leg. et det. V. Skalický, PRM 869642; ibid. 970 m a.s.l., 25 Aug. 1999, leg. et det. MT, PRM 893838. – Železná Ruda, pathway from Pancíř Mt. to Můstek Mt., 1200 m a.s.l., *Abies alba*, 7 Oct. 1978, leg. et det. S. Holec, PRM 818374. – Železná Ruda, Špičácké sedlo, 980 m a.s.l., *Abies alba*, 27 Aug. 1999, not. MT. – Železná Ruda, Gerlova huť, 965 m a.s.l., *Abies alba*, 27 Aug. 1998, leg. et det. MT, PRM 893844. – Želnava, Černý les Mt., 890 m a.s.l., *Abies alba*, 24 June 1999, PRM 893837.

Hymenochaete fuliginosa (Pers.) Lév.

Number of records: 15 records from 13 localities (4 records from 3 localities before year 1990).

Substrate: Dead branches and trunks of *Abies alba* (11 records) and *Picea abies* (4 re-

cords). 8 records are from fallen trunks, 5 from fallen branches, 1 from the piece of wood.

Vertical distribution: Altitude 600–1340 m a.s.l.

Distribution in the Bohemian Forest: *H. fuliginosa* is a rare species distributed in the whole area of the Bohemian Forest (Fig. 4.).

Results and discussion: The fungus occurs mainly in the mixed montane forests and the climax spruce forests. The distribution is limited on localities with many dead trunks and branches and natural composition of tree species (high naturalness of vegetation).

H. fuliginosa is known also from Bavarian forest (Luschka 1993) where it has been collected only on *Picea*.

Records: České Žleby, Žlebský kopec hill, 1010 m a.s.l., *Abies alba*, 13 Sep. 1999, leg. et det. MT, PRM 894185. – Horská Kvilda, Popelný potok brook, 950 m a.s.l., *Picea abies*, 6 Oct. 1997, leg. et det. J. Holec, JH 588/97. – Nová Pec, Plechý Mt., 1340 m a.s.l., *Picea abies*, 30 July 1996, leg. J. Holec, det. MT, PRM 888866. – Nová Pec, Trojmezná Mt., *Picea abies*, 26 Oct. 1971, leg. et det. F. Kotlaba, PRM 715645. – Prášily, Žďanidla Mt., 1210 m a.s.l., *Picea abies*, 18 June 1997, leg. et det. J. Holec, JH 42/97; ibid. PRM 890871. – Srní, Dračí skály rocks, 670 m., *Abies alba*, 1 July 1999, not. MT. – Srní, Povydří, 750 m a.s.l., *Abies alba*, 11 Oct. 1997, leg. MT, det. Z. Pouzar, PRM 894024. – Stožec, Medvědice, 900 m a.s.l., *Abies alba*, 2.VIII.1996, leg. J. Holec, det. MT, PRM 888820. – Volary, Bobík Mt., *Abies alba*, 22 July 1965, leg. et det. F. Kotlaba, PRM 841817. – Zátoň, Boubínský prales primeval forest, *Abies alba*, 8 Aug. 1956, leg. et det. Z. Pouzar, PRM 516518; ibid. 9 Aug. 1956, PRM 838500. – Zátoň, Jilmová skála Mt., 990 m a.s.l., *Abies alba*, 13 Oct. 1998, leg. et det. Z. Pouzar, PRM; ibid. 1000 m a.s.l., 16 Oct. 1996, leg. et det. J. Holec, PRM 889540. – Železná Ruda, Čertovo Lake, 1100 m a.s.l., *Abies alba*, 16 Oct. 1995, leg. et det. J. Holec, PRM 891896.

Hymenochaete tabacina (Sow.: Fr.) Lév.

Number of records: 34 records from 27 localities (4 unpublished records before year 1990).

Substrate: Branches and trunks of hardwoods and conifers: *Salix* spp. (13 records), *Betula* sp., *Corylus avellana*, *Fagus sylvatica*, *Fraxinus excelsior*, *Picea abies*, *Sambucus racemosa*, *Sorbus aucuparia* and *Ulmus glabra* (1 record). The species has been collected on 9 different hosts. Most (17) records are from the branches (8 finds on the fallen and 4 on the living branches, 2 on the dead branches of the living tree), 7 on trunks (3 finds on the dead standing trunks, 4 on the fallen trunks). It is not possible to identify character of substrate in some herbarium specimens.

Vertical distribution: Altitude 600–1050 m a.s.l.

Distribution in the Bohemian Forest: *Hymenochaete tabacina* is distributed in whole area of the Bohemian Forest (Fig. 5.).

Results and discussion: *H. tabacina* grows on the young trees and the trunks of the different shrubs along margins of the forests and the peatbogs, along the brooks and rivers and also in the mixed forests. The species is rather common, its distribution does not depend on the naturalness and the type of vegetation. Most fruitbodies were collected in the localities influenced by man while few records are from natural forests. The most important factor in distribution of *H. tabacina* in the Bohemian Forest is the presence of some shrubs and higher humidity.

The species is common in Bavarian forest (Luschka 1993).

Records: Borová Lada, Žďárecká slať peatbog, 980 m a.s.l., *Betula* sp., 7 July 1997, leg. J. Holec, det. MT, JH 228/97. – České Žleby, Spáleniště Mt., 930 m a.s.l., *Ulmus glabra*, 15 Oct. 1997, leg. et det. J. Holec, JH 789/97. – Horní Vltavice, 830 m a.s.l., *Corylus avellana*, 19 Sep. 1948, leg. et det. M. Svrček, PRM 833926. – Horská Kvilda, Zhůří, 1050 m a.s.l., *Salix aurita*, 9 Oct. 1997, leg. et det. J. Holec, JH 666/97. – Lenora, Dobrá, *Betula* sp., August 1929, leg. et det. A. Pilát, PRM 687070. – Loučovice, Čertova stěna rock, 660 m a.s.l., *Sorbus aucuparia*, 3 Aug. 1999, leg. et det. MT, PRM 893846. – Nová Pec, *Salix aurita*, 5 Aug. 1956, leg. et det. F. Kotlaba, PRM 687040. – Nová Pec, Houska mire, 730 m a.s.l., *Salix aurita*, 27 July 1996, leg. et det. J. Holec, PRM 888838; ibid. *Salix alba*, 24 June 1999, leg. et det. MT, PRM 893848. – Prášily, Slunečná – Gruberg, 890 m a.s.l., *Salix aurita*, 23 Sep. 1998, leg. et det. MT, PRM 893852. – Prášily, Větrný hill, 950 m a.s.l., *Salix aurita*, 23 Sep. 1998, leg. et det. MT, PRM 893850. – Prášily, Vysoké Lávky, 920 m a.s.l., *Salix caprea*, 10 June 1999, leg. et det. MT, PRM 894252. – Srní, Povydří – Horní Hrádky, 900 m a.s.l., *Sambucus*

racemosa, 16 Sep. 1998, leg. et det. MT, PRM 893851. – Srní, 800 m a.s.l., *Salix caprea*, 15 Oct. 1998, leg. Z. Pouzar, det. MT, PRM 893988. – Srní, Povydří – Hrádecký potok, 810 m a.s.l., *Salix caprea*, 30 June 1999, leg. et det. MT, PRM 893849. – Srní, Dračí skály rocks, 650 m a.s.l., *Fraxinus excelsior*, 1 July 1999, leg. et det. MT, PRM 893947. – Srní, Povydří, 650 m a.s.l., *Salix caprea*, 24 Sep. 1998, leg. et det. MT, PRM 893896; ibid. PRM893853. – Srní, Povydří, 730 m a.s.l., *Fagus sylvatica*, 12 Oct. 1998, leg. et det. MT, PRM 893992. – Srní, Povydří, 720 m a.s.l., *Salix caprea*, 3 June 1999, leg. et det. J. Holec, JH 41/99; ibid. *Picea abies*, 3 June 1999, leg. et det. J. Holec, JH 43/99. – Srní, Povydří – Hrádecký potok, 780 m a.s.l., hardwood tree, 18 June 1998, leg. et det. J. Holec, PRM 892420. – Srní, Povydří – Horní Hrádky, 880 m a.s.l., *Salix aurita*, 16 Sep. 1998, leg. et det. J. Holec, PRM 893847. – Strašín, Nahořánky, Hrbeček, *Sambucus nigra*, 29 Nov. 1997, leg. et det. M. Svrček, PRM 891689. – Strašín, Zábrdí, 650 m a.s.l., *Fraxinus excelsior*, 24 Oct. 1997, leg. et det. M. Svrček, PRM 891687; ibid. *Salix cinerea*, 25 Oct. 1997, PRM 891747. – Strašín, Nahořánky, Hrbeček, *Sambucus nigra*, 29 Nov. 1997, leg. et det. M. Svrček, PRM 891748. – Strážný, Vyhlídka hill, 890 m a.s.l., *Salix caprea*, 23 Sep. 1999, leg. et det. MT, PRM 894181. – Sudslavice, Opolenec, 600 m a.s.l., *Corylus avellana*, 2 Sep. 1990, leg. et det. F. Kotlaba, PRM 872100. – Zátoň, Boubín Mt., *Corylus avellana*, 12 Sep. 1986 leg. et det. V. Skalický, PRC. – Volary, Bobík Mt., *Salix caprea* vel *Populus tremula*, February 1961, leg. V. Francl, det. F. Kotlaba, PRM 606200. – Železná Ruda, Ferdinandovo údolí valley, 750 m a.s.l., *Salix caprea*, 19 June 1997, leg. et det. J. Holec, PRM 890885; ibid. 740 m a.s.l., JH 47/97. – Železná Ruda, Špičák Mt., *Corylus avellana*, 19 Sep. 1948, leg. et det. M. Svrček, PRM 833926; ibid. *Salix* sp., 18 Sep. 1997, PRM 891855.

Conclusions

Together six species of *Hymenochaete* occur in the Bohemian Forest. The occurence of five of them *(Hymenochaete carpatica, H. cinnamomea, H. cruenta, H. fuliginosa* and *H. tabacina)* was confirmed recently (the 1990s). Remaining species *Hymenochaete crocata* was found in the Bohemian Forest only twice, in the mid-20th century.

The most common species is *H. carpatica*, the rarest one is rather thermophilous *H. cinnamomea*. Most records are from the localities with natural composition of the tree species. Such localities are the most important for occurence of *H. fuliginosa*.

Aknowledgments. I would like to thank J. Holec and Z. Pouzar (National Museum, Prague), for their help in this matter. I also wish to thank J. Wild for help with construction of distribution maps. The work was enabled by the financial support from the Ministry of Culture of the Czech Republic (projects No. RK96P01OMG024, RK99P03OMG002).

References

Kotlaba F., 1958: Zajímavá euroasijská houba kožnatka purpurová – *Hymenochaete mougeotii* (Fr.) Cooke [Interesting euroasiatic fungus *Hymenochaete mougeotii* (Fr.) Cooke]. *Česká mykologie, 12: 136–143 (in Czech).*

Kotlaba F., 1999: Potřeba latinské zkratky pro „zapsal" v přírodních vědách [A need of a Latin abbreviation for "noted" in natural sciences]. *Mykologické listy, 71: 18–20 (in Czech).*

Kriegelsteiner G.J., 1993: *Hymenochaete carpatica* Pilát 1930, die Bergahorn Borstenscheibe, in Mitteleuropa. *Beiträge zur Kenntnis der Pilze Mitteleuropas, 9: 79–96.*

Leger J.-C., 1998: Le genre *Hymenochaete* Léveillé. *Bibliotheca mycologica, 319 pp.*

Luschka N., 1993: Die Pilze des Nationalparks Bayerischer Wald im bayerisch-böhmischer Grenzgebirge. *Hoppea, 53: 162–167.*

Pilát A., 1933: Druhé naleziště zajímavé houby *Hymenochaete carpatica* Pilát [Second locality of an interesting fungus *Hymenochaete carpatica* Pilát]. *Věda přírodní, Praha, 14: 219 (in Czech).*

Tomšovský M., 2000: Ekologie a rozšíření druhů čeledi Hymenochaetaceae na Šumavě [Ecology and distribution of Hymenochaetaceae species in the Šumava Mts.]. *Ms., dipl. thesis, Charles University, Prague, 73 pp. (in Czech).*

Tomšovský M., 2001: Remarks on the distribution of *Hymenochaete carpatica* in Central and Eastern Europe. *Czech Mycology (in press).*

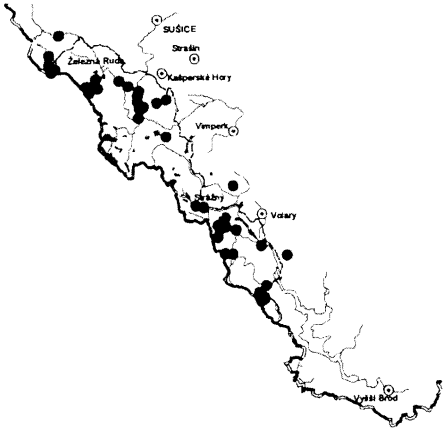

Fig. 1. – Distribution of *Hymenochaete carpatica* in the Bohemian Forest.

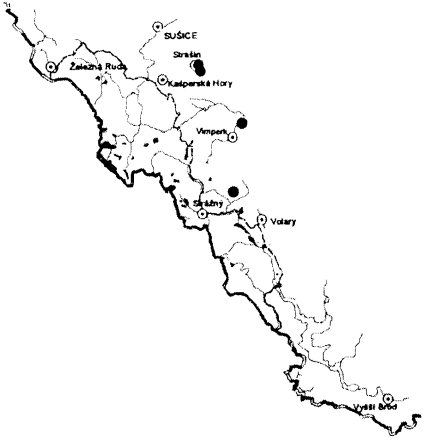

Fig. 2. – Distribution of *Hymenochaete cinnamomea* in the Bohemian Forest.

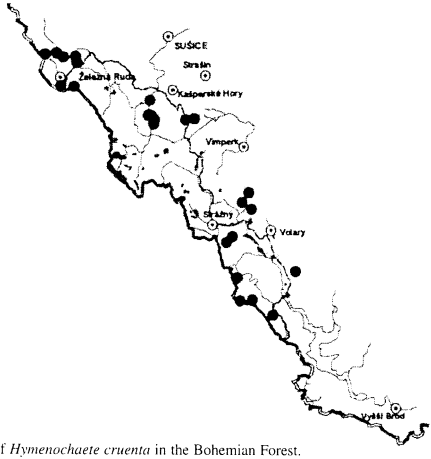

Fig. 3. – Distribution of *Hymenochaete cruenta* in the Bohemian Forest.

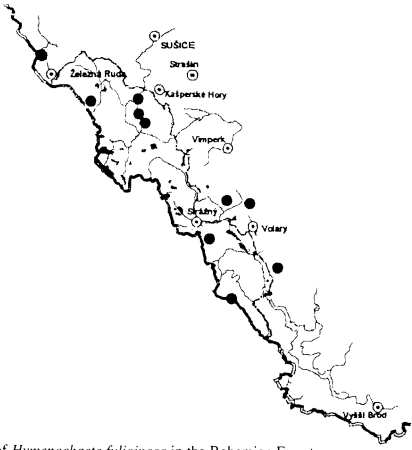

Fig. 4. – Distribution of *Hymenochaete fuliginosa* in the Bohemian Forest.

Fig. 5. – Distribution of *Hymenochaete tabacina* in the Bohemian Forest.