

## Kochjarová et al.: Grasslands in the border area of Carpathian and Pannonian regions

**Supplement E1.** The localities and header data of relevés.

**Anhang E1.** Lokalitäten und Kopfdaten der Vegetationsaufnahmen.

Data are given as follows: ordinal number; original relevé number; village/town and name of locality; geographical coordinates (longitude, latitude; WGS 84); relevé area (m<sup>2</sup>); altitude (m); aspect (degrees); slope (degrees); cover total (%); cover of herb layer (%); cover of moss layer (%); author/s (abbreviation DB = Drahoš Blánár, JK = Judita Kochjarová) and date (day, month, year) of the relevé.

**Table 1:**

- 1:** 2; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest; 20°02'01.00"; 48°45'02.00"; 25; 785; 180; 25; 50; 50; 5; JK & DB; 11. 5. 2001.
- 2:** 51; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest; 20°02'01.00"; 48°45'37.00"; 24; 780; 180; 25; 75; 75; 20; JK & DB; 19. 5. 2003.
- 3:** 53; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest; 20°02'16.66"; 48°45'41.11"; 21; 749; 158; 25; 75; 75; 10; JK & DB; 19. 5. 2003.
- 4:** 52; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest; 20°02'14.93"; 48°45'41.87"; 25; 773; 135; 30; 60; 60; 5; JK & DB; 19. 5. 2003.
- 5:** 65; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest; 20°02'14.71"; 48°45'41.76"; 27; 765; 135; 30; 70; 65; 5; JK & DB; 14. 5. 2004.
- 6:** 110; Village of Muráň, N, the nature reserve Poludnica, upper rocky part called “Klin”, open gaps in the relic pine-larch forest, NE slope, limestone gravel; 20°02'07.00"; 48°45'44.00"; 16; 810; 113; 35; 40; 40; 1; DB; 6. 5. 2011.
- 7:** 98; Town of Tisovec, NW, the nature reserve Káster, the rocky top of Mt Káster (908.6 m), rocky slope; 19°54'12.50"; 48°42'01.00"; 12; 945; 180; 25; 80; 60; 40; JK & DB; 31. 5. 2007.
- 8:** 99; Town of Tisovec, NW, the nature reserve Káster, the rocky top of Mt Káster (908.6 m), steep rocky slope; 19°54'12.80"; 48°42'01.30"; 12; 944; 338; 55; 85; 75; 35; JK & DB; 31. 5. 2007.
- 9:** 100; Village of Muráň, NWW, Hrdzavá dolina valley, SE from the elevation point Javor (1244.5 m), limestone boulders and ridges; 19°58'50.19"; 48°45'11.12"; 16; 975; 225; 10; 85; 75; 15; DB; 4. 6. 2009.
- 10:** 33; Village of Muráň, abandoned part of the little limestone quarry at the NE margin of the village, near the cemetery; 20°02'50.00"; 48°44'40.00"; 24; 440; 113; 45; 50; 40; 30; JK; 12. 5. 2002.
- 11:** 67; Village of Zlatno, W, the nature reserve Zlatnianske skalky, the open rocky slope near to the abandoned little limestone quarry; 20°04'44.82"; 48°49'33.30"; 12; 747; 180; 40; 60; 55; JK; 16. 6. 2004.
- 12:** 68; Village of Zlatno, W, the nature reserve Zlatnianske skalky, the open rocky slope near to the abandoned little limestone quarry; 20°04'44.82"; 48°49'33.30"; 12; 748; 180; 30; 60; 50; 25; JK; 16. 6. 2004.

### Supplement S2:

- 1:** 104; Town of Tisovec, NE, the nature reserve Šarkanica, Mt Strelnica (958.3 m), on the limestone boulder; 19°58'13.26"; 48°41'54.90"; 8; 775; 158; 10; 40; 20; 40; DB; 18. 7. 2002.
- 2:** 101; Town of Tisovec, the nature reserve Hradová, SSW from the elevation point Hradová (887.4 m); 19°55'16.70"; 48°40'50.40"; 8; 865; 158; 85; 30; 15; 15; DB; 16. 5. 2002.
- 3:** 23; Town of Tisovec, W, Mt Hradová (887.4 m), SE rocky slope, near the yellow marked tourist path; 19°55'59.00"; 48°40'60.00"; 25; 720; 158; 60; 60; 40; 50; JK; 10. 5. 2002.
- 4:** 25; Town of Tisovec, W, Mt Hradová (887.4 m), SE slope, limestone scree near the yellow marked tourist path; 19°56'02.00"; 48°40'60.00"; 25; 670; 135; 60; 80; 50; 80; JK; 10. 5. 2002.
- 5:** 24; Town of Tisovec, E, Mt Hradová (887.4 m), SE slope, limestone scree near the yellow marked tourist path; 19°55'59.00"; 48°40'60.00"; 15; 720; 135; 80; 40; 30; 30; JK; 10. 5. 2002.
- 6:** 31; Village of Muráň, the cemetery, the man-made limestone gravel terrace in front of the ceremonial hall; 20°02'49.00"; 48°44'34.00"; 15; 415; 158; 30; 50; 50; 5; JK; 12. 5. 2002.
- 7:** 105; Village of Muráň, SWW, the forest road margin near the deforested glade named “Holotina” above the Javorníková dolina valley, gravel scree SW from the elevation point Mátožná (706.7 m); 20°01'40.00"; 48°44'10.00"; 8; 665; 180; 35; 15; 15; 1; DB; 4. 6. 2007.
- 8:** 62; Village of Muráňská Huta, the rocky slope above the bus station; 20°06'38.00"; 48°46'45.00"; 12; 725; 180; 60; 50; 40; 25; JK; 29. 5. 2003.
- 9:** 95; Village of Muráň, NWW, forest area called “Priehalina”, the margin of the forest road to the mountain meadow “Ferancová”; 19°59'46.70"; 48°43'48.70"; 10; 925; 158; 70; 50; 35; 50; JK & DB; 23. 6. 2005.
- 10:** 111; Village of Tisovec, N, the active limestone quarry Čremošná, the rock wall behind the operating building with transformers; 19°56'40.34"; 48°41'14.71"; 8; 54; 225; 55; 50; 20; 35; DB; 18. 5. 2011.
- 11:** 113; Village of Tisovec, N, the active limestone quarry Čremošná, the upper rock terrace near the operating building with transformers; 19°56'41.00"; 48°41'15.00"; 8; 503; 203; 40; 15; 10; 7; DB; 7. 8. 2011.
- 12:** 70; Village of Muráň, SWW, the deforested glade named “Holotina” above the Javorníková dolina valley; 20°01'42.24"; 48°44'13.50"; 15; 667; 203; 45; 40; 40; 10; JK; 29. 7. 2004.
- 13:** 71; Village of Muráň, SWW, the deforested glade named “Holotina” above the Javorníková dolina valley; 20°01'42.24"; 48°44'13.50"; 16; 667; 203; 30; 50; 50; 10; JK; 29. 7. 2004.
- 14:** 72; Village of Muráň, SWW, the deforested glade named “Holotina” above the Javorníková dolina valley; 20°01'43.20"; 48°44'13.26"; 16; 652; 225; 28; 25; 25; 5; JK; 29. 7. 2004.
- 15:** 73; Village of Muráň, SWW, the forest road margin near the deforested glade named “Holotina” above the Javorníková dolina valley; 20°01'48.24"; 48°44'12.30"; 12; 646; 180; 40; 30; 30; 5; JK; 29. 7. 2004.

- 16:** 115; Village of Závadka nad Hronom, S, the nature reserve Malá Stožka, instable limestone scree; 19°55'36.25"; 48°46'22.00"; 16; 1088; 180; 45; 40; 25; 10; DB; 4. 8. 2011.
- 17:** 58; Village of Muránska Huta, NE, the mountain ridge Tesná skala, NE margin of the rocky slope; 20°07'20.00"; 48°47'05.00"; 16; 850; 180; 40; 70; 40; 40; JK; 29. 5. 2003.
- 18:** 93; Village of Muránska Huta, abandoned part of the little limestone quarry near the crossing of the road to settlement Predná Hora; 20°06'03.54"; 48°46'30.48"; 12; 809; 135; 15; 60; 40; 20; JK; 17. 8. 2004.
- 19:** 94; Village of Muránska Huta, the gravel scree on the bottom of the little limestone quarry near the crossing of the road to settlement Predná Hora; 20°06'03.30"; 48°46'30.72"; 24; 798; 135; 45; 75; 70; 20; JK; 17. 8. 2004.
- 20:** 114; Village of Muráň, NE, the nature reserve Cigánka, the castle ruin Muránsky hrad, NE part of the destroyed castle wall; 20°03'38.27"; 48°45'36.25"; DB; 6; 919; 180; 20; 60; 60; 1; 12. 7. 2011.
- 21:** 59; Village of Muránska Huta, NE, the mountain ridge Tesná skala, SW margin of the rocky slope near the village; 20°07'16.00"; 48°47'04.00"; 10; 860; 180; 60; 60; 50; 30; JK; 29. 5. 2003.
- 22:** 60; Village of Muránska Huta, NE, the mountain ridge Tesná skala, SW margin of the rocky slope near the village, directly above the beech forest; 20°07'12.00"; 48°47'02.00"; 12; 854; 180; 50; 75; 60; 25; JK; 29. 5. 2003.
- 23:** 61; Village of Muránska Huta, the rocky slope above the bus station; 20°06'37.00"; 48°46'44.00"; 20; 720; 135; 80; 35; 25; 20; JK; 29. 5. 2003.
- 24:** 63; Village of Muráň, NE, near the karst spring called "Biele vody" below the Muránsky hrad castle, man-made limestone gravel accumulation at the margin of the extensively used pasture; 20°04'11.00"; 48°45'26.00"; 20; 440; 248; 10; 50; 25; 40; JK; 6. 7. 2003.
- 25:** 66; Town of Tisovec, SW, the pasture called "Podhrad", on the left side of the road to the nature reservation Suché dolý; 19°53'52.14"; 48°40'27.18"; 9; 557; 45; 20; 60; 40; 60; JK; 9. 6. 2004.
- 26:** 19; Town of Tisovec, the railway embankment SE from the railway station; 19°56'14.00"; 48°41'16.00"; 25; 425; 225; 80; 50; 30; 30; JK; 4. 6. 2001.
- 27:** 20; Town of Tisovec, the railway embankment SE from the railway station; 19°56'13.00"; 48°41'17.00"; 25; 425; 225; 80; 40; 40; 20; JK; 4. 6. 2001.
- 28:** 21; Town of Tisovec, the railway embankment SE from the railway station; 19°56'13.00"; 48°41'17.00"; 25; 425; 90; 80; 60; 50; 50; JK; 4. 6. 2001.
- 29:** 102; Village of Muráň, NE, the nature reserve Šiance, SSE from the elevation point Šiance (1041.5 m), gravel scree at the base of the limestone boulder; 20°05'07.50"; 48°46'12.78"; 6; 735; 158; 25; 80; 75; 10; DB; 20. 6. 2002.
- 30:** 103; Village of Muráň, NE, the nature reserve Šiance, SSE from the elevation point Šiance (1041.5 m), gravel scree between the limestone boulders; 20°05'06.24"; 48°46'16.20"; 6; 820; 158; 30; 40; 40; 1; DB; 20. 6. 2002.
- 31:** 75; Village of Muráň, NW, the forest road margin near the deforested glade named "Holotina" above the Javorníková dolina valley; 20°01'55.50"; 48°44'15.06"; 10; 616; 68; 75; 40; 25; 33; JK; 29. 7. 2004.
- 32:** 22; Village of Červená Skala, S, rocky slope above the river Hron opposite to the railway station, near the mouth of the valley Trsteník; 20°08'02.00"; 48°49'07.00"; 10; 785; 45; 80; 50; 30; 50; JK; 23. 8. 2001.
- 33:** 96; Village of Červená Skala, E, near the crossing of road to Poprad, the solitaire limestone boulder on the left side of the river Hron; 20°08'42.60"; 48°49'12.30"; 10; 804; 225; 60; 80; 33; 70; JK & DB; 7. 7. 2005.
- 34:** 84; Village of Červená Skala, SW, the forest road margin between the limestone quarry in the mouth of the valley Trsteník and mountain meadow "Filova poľana"; 20°07'26.94"; 48°48'36.54"; 21; 854; 135; 32; 55; 50; 10; JK; 10. 8. 2004.
- 35:** 85; Village of Červená Skala, SW, the valley Trsteník, rocky terrace above the forest road margin; 20°07'26.94"; 48°48'36.54"; 10; 854; 135; 38; 75; 60; 20; JK; 10. 8. 2004.
- 36:** 87; Village of Červená Skala, SW, the forest road margin between the limestone quarry in the mouth of the valley Trsteník and mountain meadow "Filova poľana"; 20°07'05.00"; 48°48'41.00"; 20; 1026; 135; 54; 30; 25; 10; JK; 10. 8. 2004.
- 37:** 112; Village of Červená Skala, SW, rocky terrace above the forest road margin SE from the elevation point Bolegovo; 20°06'58.31"; 48°48'32.83"; 6; 1065; 113; 43; 55; 40; 15; DB; 4. 7. 2011.
- 38:** 88; Village of Červená Skala, S, the margin of the limestone quarry in the mouth of the valley Trsteník; 20°08'01.00"; 48°49'04.00"; 20; 810; 180; 35; 40; 0; JK; 10. 8. 2004.
- 39:** 91; Village of Muránska Huta, SW, the SE foothill of the mountain ridge Šiance above the forest house in the saddle Predná Hora; 20°05'59.58"; 48°46'30.80"; 16; 861; 180; 35; 70; 50; 25; JK; 17. 8. 2004.
- 40:** 69; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, open gap in the oak forest; 20°01'34.20"; 48°45'26.76"; 25; 680; 180; 30; 90; 90; 0; JK; 27. 7. 2004.
- 41:** 79; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, steep rocky slope; 20°01'30.00"; 48°45'31.00"; 20; 745; 225; 40; 20; 20; 0; JK; 1. 8. 2004.
- 42:** 92; Village of Muránska Huta, SW, the SE foothill of the mountain ridge Šiance above the forest house in the saddle Predná Hora; 20°06'00.84"; 48°46'31.56"; 25; 867; 158; 40; 90; 90; 5; JK; 17. 8. 2004.
- 43:** 90; Village of Muránska Huta, SW, the SE foothill of the mountain ridge Šiance above the forest house in the saddle Predná Hora, grassy limestone gravel scree; 20°05'59.58"; 48°46'30.80"; 24; 861; 180; 45; 90; 90; 15; JK; 17. 8. 2004.
- 44:** 78; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, the east margin of the steep rocky slope; 20°01'41.40"; 48°45'28.92"; 20; 685; 180; 30; 90; 90; 5; JK; 1. 8. 2004.
- 45:** 81; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, the east margin of the steep rocky slope; 20°01'30.00"; 48°45'33.00"; 21; 780; 203; 45; 90; 90; 0; JK; 1. 8. 2004.
- 46:** 43; Village of Muráň, N, near the red marked tourist path to the Muránsky hrad castle, the SW margin of the nature reserve Cigánka; 20°03'00.00"; 48°45'17.00"; 24; 675; 315; 40; 95; 70; JK; 4. 7. 2002.
- 47:** 83; Village of Červená Skala, steep rocky slope opposite to the railway station, near the limestone quarry in the mouth of the valley Trsteník; 20°08'02.20"; 48°49'08.56"; 24; 785; 45; 26; 95; 95; 30; JK; 10. 8. 2004.
- 48:** 26; Town of Tisovec, W, Mt Hradová (887.4 m), SE slope, limestone scree in the open hornbeam forest; 19°56'05.00"; 48°41'01.00"; 25; 615; 113; 60; 75; 10; 70; JK; 10. 5. 2002.
- 49:** 89; Village of Muránska Huta, SW, the SE slope of the mountain ridge Šiance (elevation point 979.6 m), above the small abandoned limestone quarry near the saddle Predná hora; 20°06'00.66"; 48°46'30.24"; 25; 841; 158; 37; 80; 50; 40; JK; 17. 8. 2004.
- 50:** 86; Village of Červená Skala, SW, the forest road margin between the limestone quarry in the mouth of the valley Trsteník and mountain meadow "Filova poľana"; 20°07'24.18"; 48°48'54.12"; 14; 89; 135; 40; 20; 20; 0; JK; 10. 8. 2004.

**51:** 109; Town of Tisovec, W, Mt Hradová (887.4 m), limestone scree below the rock shelter; 19°55'18.00"; 48°40'45.00"; 12; 850; 293; 5; 80; 75; 30; DB; 9. 7. 2002.

**52:** 97; Village of Muráň, NE, the SE slope of the mountain ridge Šiance, near the yellow marked tourist path to the Muráňsky hrad castle; 20°04'49.80"; 48°46'05.70"; 25; 695; 135; 45; 90; 90; 3; JK; 2. 8. 2005.

### Supplement S3:

**1:** 55; Village of Muráň, W, Mt Vrbjarka (1126.8 m), the slope above the Javorníková dolina valley; 19°59'48.73"; 48°44'28.46"; 15; 1079; 158; 80; 60; 40; 25; JK & DB; 20. 5. 2003.

**2:** 30; Village of Muráň, NE, Mt Cigánka (935.4 m), above the forest road to the Muráň castle, deforested place called "Spálenisko"; 20°02'54.48"; 48°45'02.64"; 16; 630; 180; 60; 40; 35; 20; JK & DB; 11. 5. 2002.

**3:** 64; Village of Muráň, N, the nature reserve Poludnica, the upper part called "Klin", limestone rocky outcrops; 20°02'03.51"; 48°45'44.39"; 16; 878; 158; 75; 50; 45; 15; JK & DB; 14. 5. 2004.

**4:** 77; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, steep rocky slope near the upper rocky part called "Klin"; 20°01'43.26"; 48°45'26.46"; 16; 681; 135; 45; 50; 35; 0; JK; 1. 8. 2004.

**5:** 40; Village of Muráň, SW, the settlement Paseky, Martinova dolina valley, the south slope; 19°58'22.38"; 48°42'38.58"; 18; 795; 135; 45; 30; 25; 30; JK; 2. 7. 2002.

**6:** 80; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, steep rocky slope; 20°01'29.00"; 48°45'33.00"; 21; 780; 225; 45; 40; 33; 20; JK; 1. 8. 2004.

**7:** 41; Village of Muráň, SW, the settlement Paseky, Martinova dolina valley, the south slope; 19°58'22.38"; 48°42'38.58"; 18; 795; 158; 35; 50; 50; 15; JK; 2. 7. 2002.

**8:** 32; Village of Muráň, abandoned part of the little limestone quarry at the NE margin of the village, near the cemetery; 20°02'50.00"; 48°44'39.00"; 25; 430; 90; 1; 80; 40; 75; JK; 12. 5. 2002.

**9:** 34; Village of Muráň, NE, the foothill of the Mt Cigánka (935.4 m), the fringe at forest margin directly above the little fields in the NE part of the village; 20°03'04.00"; 48°44'40.00"; 16; 425; 135; 30; 90; 80; 20; JK; 12. 5. 2002.

**10:** 54; Village of Muráň, W, Mt Vrbjarka (1126.8 m), the slope above the Javorníková dolina valley; 19°59'50.24"; 48°44'29.40"; 20; 1083; 180; 20; 70; 40; 40; JK & DB; 20. 5. 2003.

**11:** 82; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, west margin of the steep rocky slope; 20°01'25.00"; 48°45'33.00"; 20; 825; 135; 35; 85; 80; 10; JK; 1. 8. 2004.

**12:** 39; Village of Muráň, SW, the settlement Paseky, Martinova dolina valley, the south slope; 19°58'16.74"; 48°42'34.32"; 16; 826; 135; 35; 70; 70; 20; JK; 2. 7. 2002.

**13:** 76; Village of Muráň, N, the nature reserve Poludnica, the valley Zadné Piecky, east margin of the steep rocky slope near the upper rocky part called "Klin"; 20°01'43.26"; 48°45'26.46"; 25; 681; 135; 30; 80; 80; 5; JK; 1. 8. 2004.

**14:** 106; Town of Tisovec, the nature reserve Šarkanica, locality called "Maselníková", ESE from the elevation point Macov vrch (1098.8 m), S slope; 19°59'38.04"; 48°43'22.52"; 25; 825; 180; 30; 75; 70; 5; DB; 3. 7. 2002.

**15:** 107; Town of Tisovec, the nature reserve Šarkanica, SE from the elevation point Šarkanica (1151.2 m), rocky slope; 19°59'08.40"; 48°43'01.02"; 20; 850; 158; 35; 40; 40; 1; DB; 3. 7. 2002.

**16:** 35; Village of Muráň, NE, the foothill of Mt Cigánka (935.4 m); 20°03'09.00"; 48°44'43.00"; 25; 440; 135; 30; 95; 60; 50; JK; 12. 5. 2002.

**17:** 3; Village of Muráň, SW foothill of the Mt Cigánka (935.4 m), the abandoned part of a little limestone quarry NE from the village; 20°02'51.00"; 48°44'39.00"; 24; 430; 158; 20; 90; 90; 40; JK; 13. 5. 2001.

**18:** 27; Village of Muráň, NE, Mt Cigánka (935.4 m), above the forest road to the Muráň castle, deforested place called "Spálenisko"; 20°02'56.46"; 48°45'05.70"; 20; 645; 135; 35; 60; 50; 60; JK & DB; 11. 5. 2002.

**19:** 28; Village of Muráň, NE, Mt Cigánka (935.4 m), above the forest road to the Muráň castle, deforested place called "Spálenisko"; 20°02'56.34"; 48°45'05.28"; 18; 644; 180; 18; 50; 45; 50; JK & DB; 11. 5. 2002.

**20:** 14; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muráňsky hrad castle; 20°03'23.00"; 48°46'17.00"; 16; 905; 180; 50; 70; 70; 5; JK & DB; 14. 5. 2001.

**21:** 29; Village of Muráň, NE, Mt Cigánka (935.4 m), the forest road to the Muráň castle, deforested place called "Spálenisko", grassy rocky slope above the road; 20°02'56.44"; 48°45'04.56"; 25; 645; 225; 25; 95; 90; 25; JK & DB; 11. 5. 2002.

**22:** 6; Village of Muráň, NE, Mt Cigánka (935.4 m), steep rocky slope called "Homôlky" on the SE-E foothill; 20°03'16.00"; 48°45'04.00"; 25; 545; 203; 40; 80; 80; 5; JK; 13. 5. 2001.

**23:** 7; Village of Muráň, NE, Mt Cigánka (935.4 m), SW slope above the limestone quarry, open rocky slope called "Homôlky"; 20°03'17.00"; 48°45'08.00"; 25; 625; 180; 35; 80; 80; 15; JK; 13. 5. 2001.

**24:** 8; Village of Muráň, NE, Mt Cigánka (935.4 m), SW slope above the limestone quarry, open rocky slope called "Homôlky"; 20°03'18.00"; 48°45'05.00"; 25; 585; 180; 50; 70; 60; 15; JK; 13. 5. 2001.

**25:** 9; Village of Muráň, NE, Mt Cigánka (935.4 m), SW slope above the limestone quarry, open rocky slope called "Homôlky"; 20°03'18.00"; 48°45'04.00"; 25; 560; 180; 45; 70; 60; 10; JK; 13. 5. 2001.

**26:** 11; Village of Muráň, NE, Mt Cigánka (935.4 m), SW slope above the limestone quarry, open rocky slope called "Homôlky"; 20°03'19.00"; 48°45'02.00"; 25; 530; 180; 40; 50; 50; 50; JK; 13. 5. 2001.

**27:** 10; Village of Muráň, NE, Mt Cigánka (935.4 m), SW slope above the limestone quarry, open rocky slope called "Homôlky"; 20°03'17.00"; 48°45'02.00"; 25; 530; 203; 45; 80; 80; 5; JK; 13. 5. 2001.

**28:** 4; Village of Muráň, SW foothill of the Mt Cigánka (935.4 m), the extensively used pasture between two limestone quarries NE from the village; 20°03'05.00"; 48°44'41.00"; 20; 425; 90; 15; 90; 90; 40; JK; 13. 5. 2001.

**29:** 12; Village of Muráň, NE, rocky slope above the limestone quarry; 20°03'27.00"; 48°44'55.00"; 25; 450; 180; 30; 40; 40; 10; JK; 13. 5. 2001.

**30:** 5; Village of Muráň, NE, Mt Cigánka (935.4 m), steep rocky slope called "Homôlky" on the SE-E foothill; 20°03'11.00"; 48°45'06.00"; 25; 625; 90; 37; 90; 90; 5; JK; 13. 5. 2001.

**31:** 42; Village of Muráň, SW, the settlement Paseky, Martinova dolina valley, the south slope; 19°58'23.70"; 48°42'38.94"; 20; 803; 158; 35; 75; 75; 5; JK; 2. 7. 2002.

**32:** 15; Village of Muráň, NE, Mt Šiance (1041.5 m), SE slope, near to the yellow marked tourist path to the castle Muráň; 20°05'00.00"; 48°46'06.00"; 24; 655; 158; 30; 80; 60; 25; JK; 27. 5. 2001.

- 33:** 36; Village of Muráň, NE, Mt Šiance (1041.5 m), open rocky and grassy gap in the oak forest on the south foothill; 20°04'50.80"; 48°46'02.40"; 24; 630; 135; 26; 90; 90; 10; JK; 14. 5. 2002.
- 34:** 44; Village of Muráň, NW, the mouth of the valley Dolinský potok, the fringe of an abandoned orchard at the base of S slope of the rocky valley Piecky; 20°01'48.00"; 48°45'02.00"; 20; 415; 113; 22; 100; 100; 30; JK; 29. 7. 2002.
- 35:** 50; Village of Muráň, SW, the foothill of the elevation point 664.8 m called "Hrby", the fringe of extensively used meadow directly below the beech forest; 20°02'01.00"; 48°44'03.00"; 18; 465; 135; 15; 80; 80; 30; JK; 4. 8. 2002.
- 36:** 46; Village of Muráň, NE, the upper margin of the juniper-shrub near the limestone quarry (SW foothill of the Mt Cigánka); 20°03'25.00"; 48°44'47.00"; 20; 435; 158; 15; 90; 80; 50; JK; 30. 7. 2002.
- 37:** 49; Village of Muráň, NE, the margin of the juniper-shrub near the limestone quarry (SW foothill of the Mt Cigánka); 20°03'20.00"; 48°44'46.00"; 16; 425; 180; 15; 75; 60; 50; JK; 30. 7. 2002.
- 38:** 48; Village of Muráň, NE, the upper margin of the juniper-shrub near the limestone quarry (SW foothill of the Mt Cigánka), fringe at forest margin; 20°03'32.00"; 48°44'51.00"; 20; 410; 180; 30; 75; 75; 25; JK; 30. 7. 2002.
- 39:** 47; Village of Muráň, NE, the upper margin of the juniper-shrub near the limestone quarry (SW foothill of the Mt Cigánka); 20°03'33.00"; 48°44'50.00"; 20; 410; 135; 23; 80; 75; 50; JK; 30. 7. 2002.
- 40:** 56; Village of Muráň, SWW, the deforested glade named "Holotina" above the Javorníková dolina valley; 20°01'46.13"; 48°44'12.98"; 25; 667; 180; 25; 95; 95; 1; JK; 20. 5. 2003.
- 41:** 57; Village of Muráň, SWW, the deforested glade named "Holotina" above the Javorníková dolina valley; 20°01'47.78"; 48°44'12.62"; 24; 675; 180; 25; 90; 90; 5; JK; 20. 5. 2003.
- 42:** 74; Village of Muráň, SWW, the deforested glade named "Holotina" above the Javorníková dolina valley; 20°01'44.10"; 48°44'13.20"; 25; 660; 203; 15; 95; 95; 0; JK; 29. 7. 2004.
- 43:** 45; Village of Muráň, NE, SW slope of the Mt Cigánka, open gap in the secondary *Pinus sylvestris*-forest near the limestone quarry; 20°03'01.00"; 48°44'42.00"; 18; 437; 225; 26; 95; 95; 75; JK; 30. 7. 2002.
- 44:** 18; Village of Muráň, NNE, the east margin of the nature reserve Poludnica, near to the mountain meadow Veľká lúka (SW part of the meadow called "Piesky"); 20°03'42.00"; 48°46'20.00"; 16; 910; 158; 25; 80; 80; 10; JK; 27. 5. 2001.
- 45:** 13; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muránsky hrad castle; 20°03'22.00"; 48°46'17.00"; 12; 900; 203; 60; 80; 75; 5; JK & DB; 14. 5. 2001.
- 46:** 16; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muránsky hrad castle; 20°03'22.00"; 48°46'17.00"; 25; 905; 135; 5; 90; 90; 20; JK; 27. 5. 2001.
- 47:** 17; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muránsky hrad castle; 20°02'40.00"; 48°46'13.00"; 25; 995; 158; 30; 75; 75; 50; JK; 27. 5. 2001.
- 48:** 37; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muránsky hrad castle; 20°03'20.00"; 48°46'16.00"; 25; 905; 135; 26; 75; 75; 10; JK; 23. 5. 2002.
- 49:** 38; Village of Muráň, NNE, the nature reserve Poludnica, the rocky edge opposite to the Muránsky hrad castle; 20°03'21.00"; 48°46'17.00"; 16; 910; 90; 30; 75; 60; 50; JK; 23. 5. 2002.