

Appendix 1. Specimens examined in this study

Melampyrum roseum Maxim. (꽃머느리밥풀)

Gyeonggi, Mt. Myeongseong, 14 Sep 2001, *E. S. Jeon*, 1034296 (KH), Mt. Sori-bong, 1 Aug 2002, *E. S. Jeon*, 1106548 (KH), Mt. Jukyeop, 5 Sep 2008, *O. S. Hwam*, 1229074 (KH), Mt. Gakhl, 24 Sep 2008, *H. J. Kim et al.*, 1222628 (KH), Guri-si, 21 Jun 2011, *Y. C. Kim*, 1344579 (KH), Mt. Gwangdeok, 16 Aug 2011, *W. K. Paik*, 1361722 (KH), Mt. Myeongseong, 7 Sep 2011, *W. K. Paik*, 1361727 (KH), Idong-gyo-ri, 22 Sep 2011, *S. H. Park*, 1340170 (KH).

Gangwon, Mt. Gwangdeok, 26 Aug 2005, *S. P. Hong et al.*, 1343704 (KH), Mt. Jeokgeun, 25 Aug 2011, *J. W. Jang et al.*, 1353096 (KH), Mt. Sorak, 20 Jul 2012, *S. Y. Jung et al.*, 1416790 (KH), Mt. Hambaek, 25 Aug 2020, *J. C. Yang et al.*, 0002415 (KBA), Mt. Baegun, 27 Sep 2021, *J. C. Yang et al.*, 0003244 (KBA).

Chungbuk, Mt. Jwagusan, 8 Aug 2011, *J. W. Yoon et al.*, 1360063 (KH), Mt. Jwagusan, 28 Aug 2013, *G. Y. Chung et al.*, J130828001-J130828003 (ANH).

Chungnam, Mt. Taewha, 25 Aug 2007, *J. I. Jeon*, 1172451 (KH), Isl. Oiyendo, 27 Aug 2008, *Y. J. Chung et al.*, 1259199, 1259201 (KH), Mt. Oseo, 5 Sep 2009, *Y. J. Chung*, 1258229 (KH).

Jeonbuk, Isl. Wido, 27 Aug 2004, *G. Y. Chung et al.*, 부안(위도)-040827-189 (ANH), Isl. Wido, 14 Sep 2010, *K. O. Yoo*, 1357891 (KH).

Jeonnam, Isl. Heuksando, 18 Sep 2015, *G. Y. Chung et al.*, JH150918001-JH150918010 (ANH), Isl. Hongdo, 16 Oct 2015, *G. Y. Chung et al.*, JH151016001-JH151016010 (ANH)

Gyeongbuk, Mt. Dundook, 27 Aug 2014, *G. Y. Chung et al.*, JD140827001-JD140827005 (ANH), Mt. Dundook, 27 Sep 2014, *G. Y. Chung et al.*, JD140927001-JD140927007 (ANH), Mt. Dundook, 1 Sep 2015, *G. Y. Chung et al.*, JD150901001-JD150901005 (ANH).

Melampyrum roseum var. *ovalifolium* Nakai ex Beauverd (알머느리밥풀)

Gangwon, Mt. Soeppul, 11 Sep 2008, *W. K. Paik*, 1249016 (KH).

Daejeon, Mt. Sikjang, 31 Aug 2008, *Kim et al.*, 1206786 (KH), Mt. Sikjang, 4 Oct 2008, *Kim et al.*, 1206689 (KH).

Chungbuk, Mt. Cheondeung, 5 Aug 2002, *G. Y. Chung et al.*, (ANH).

Chungnam, Mt. Kwangduk, 24 Aug 2007, *H. S. Lee*, 1171783 (KH), Mt. Taewha, 25 Aug 2007, *J. I. Jeon*, 1172452 (KH).

Gwangju, 26 Aug 2001, *E. S. Jeon*, 1029377 (KH), Mt. Mudeung, 10 Sep 2009, *Y. J. Chung et al.*, 1258450 (KH), Mt. Mudeung, 17 Sep 2009, *Y. J. Chung*, 1258801 (KH).

Jeonbuk, Mt. Deogyu, 15 Oct 2002, *J. H. Kim et al.*, 1056917 (KH), Mt. Gapjang, 26 Aug 2004, *G. Y. Chung et al.*, 부안(갑장산)-040826-067 (ANH), Mt. Sinseonbong, 28 Aug 2004, *G. Y. Chung et al.*, 부안(신선봉)-040828-035 (ANH), Mt. Naejang, 3 Sep 2004, *E. S. Jeon*, 1081827-1081828 (KH), Mt. Naejang, 9 Sep 2005, *S. P. Hong et al.*, 1240580 (KH).

Jeonnam, Isl. Jindo, 19 Jul 2006, *Y. H. Cho et al.*, 1139088 (KH), Dongjeung Village, 16 Sep 2006, *Y. H. Cho et al.*, 1140629 (KH), Mt. Chukreong, 31 Aug 2009, *Y. J. Chung*, 1257987 (KH), Isl. Jindo, 17 Sep 2015, *G. Y. Chung et al.*, JJ150917001-JJ150917005 (ANH).

Gyeongbuk, Mt. Munsu, 19 Sep 1998, *G. Y. Chung et al.*, (ANH), Mt. Yuhak, 16 Aug 2001, *G. Y. Chung et al.*, EN0118147-EN0118150, EN0118152 (ANH), Mt. Hakga, 29 Aug 2003, *G. Y. Chung et al.*, 1056726 (KH), Mt. Geomma, 9 Sep 2004, *G. Y. Chung*, (ANH), Mt. Sudo, 12 Aug 2006, *H. T. Im*, 1233059 (KH), Binggye Valley, 29 Sep 2007, *J. S. Kim*, 1164126 (KH), Mt. Soback, 24 Aug 2011, *C. G. Jang*, 1345232 (KH), Mt. Yak, 6 Aug 2014, *G. Y. Chung et al.*, JY140806001-JY140806003 (ANH), Mt. Gala, 6 Aug 2014, *G. Y. Chung et al.*, JG140806001-JG140806003 (ANH), Mt. Cheondeung, 11 Aug 2014, *G. Y. Chung et al.*, JC140811001-JC140811004 (ANH), Mt. Hakga, 21 Aug 2014, *G. Y. Chung et al.*, JH140821001-JH140821005 (ANH), Mt. Munsu, 30 Aug 2014, *G. Y. Chung et al.*, JM140830001-JM140830004 (ANH), Mt. Hakga, 3 Aug 2015, *G. Y. Chung et al.*, JH150803001-JH150803003 (ANH).

Gyeongnam, Mt. Ungseokbong, 8 Aug 2007, *S. H. Park et al.*, 1160942 (KH), Ganwoljae, 12 Sep 2007, *S. H. Park et al.*,

1163311 (KH), Mt. Ungseokbong, 14 Sep 2007, *S. H. Park et al.*, 1163528 (KH).

***Melampyrum roseum* var. *japonicum* Franch. & Sav.**

(수염머느리밥풀)

Gangwon, Mt. Seokbyeong, 27 Aug 2006, *J. P. Hyun et al.*, 1136253 (KH), Mt. Ballon, 27 Jul 2010, *J. C. Yang et al.*, 1309192 (KH), Mt. Goyang, 30 Jul 2010, *K. S. Kim et al.*, 1293519 (KH), Myeonggae-ri, 12 Aug 2021, *J. S. Han et al.*, 0003242 (KBA).

Jeonbuk, Mt. Bugwi, 1 Sep 2005, *S. H. Park et al.*, 1092880 (KH), Mt. Bugwi, 14 Oct 2005, *S. H. Park*, 1094038 (KH), Mt. Bonghwa, 19 Aug 2021, *J. S. Han et al.*, 0003243 (KBA).

Jeonnam, Mt. Palyeong, 12 Aug 2003, *S. W. Park et al.*, 1052543-1052544 (KH), Mt. Jonjai, 2 Sep 2009, *Y. H. Cho et al.*, 1254309 (KH).

Gyeongbuk, Mt. Choechibong, 10 Aug 2000, *G. Y. Chung et al.*, (ANH), Mt. Agu, 10 Aug 2000, *G. Y. Chung et al.*, (ANH), Mt. Ulryeon, 13 Jul 2002, *G. Y. Chung et al.*, (ANH), Mt. Juwang, 22 Aug 2002, *G. Y. Chung et al.*, (ANH), Wangpicheon, 6 Sep 2002, *G. Y. Chung et al.*, (ANH), Mt. Geomma, 9 Sep 2004, *G. Y. Chung et al.*, (ANH), Mt. Juwang, 3 Aug 2006, *K. O. Yoo et al.*, 1234397 (KH), Mt. Unju, 31 Aug 2006, *C. Y. Yoon*, 1233600 (KH), Mt. Geumjang, 14 Aug 2007, *G. Y. Chung*, 1175260-1175261 (KH), Mt. Moe, 9 Aug 2014, *G. Y. Chung et al.*, JMI40809001-JMI40809004 (ANH), Mt. Geomma, 21 Aug 2014, *G. Y. Chung et al.*, JG140821001-JG140821004 (ANH), Wangpicheon, 31 Aug 2014, *G. Y. Chung et al.*, JW140831001-JW140831004 (ANH), Mt. Eungbong, 4 Sep 2014, *G. Y. Chung et al.*, JE140904001-JE140904003 (ANH), Mt. Maebong, 30 Jul 2015, *G. Y. Chung et al.*, JMI50730001-JMI50730003 (ANH), Mt. Moe, 4 Aug 2015, *G. Y. Chung et al.*, JMI50804001-JMI50804003 (ANH).

Gyeongnam, Mt. Yeohang, 21 Aug 1999, *G. Y. Chung et al.*, EN99001074 (ANH), Mt. Mangun, 15 Jul 2003, *G. Y. Chung et al.*, (ANH), Mt. Geumoh, 15 Aug 2003, *G. Y. Chung et al.*, 030815-060033-030815-060034 (ANH), Mt. Ungseok, 7 Aug 2007, *S. H. Park et al.*, 1160907 (KH), Mt. Gaji, 15 Sep 2009, *S. H. Kang*, 1325957, 1333706, 1370662 (KH), Mt.

Hoeum, 27 Sep 2009, *C. G. Jang et al.*, 1332997 (KH), Mt. Baegun, 4 Aug 2021, *H. J. Kim et al.*, 0003241 (KBA).

***Melampyrum setaceum* (Maxim, ex palib.)**

Nakai(애기머느리밥풀)

Seoul, Mt. Bukhan, 3 Sep 2005, *E. S. Jeon*, 1109631 (KH).

Inchon, Mt. Munhak, 26 Sep 2007, *D. H. Lee*, 1314012 (KH).

Gyeonggi, Mt. Cheolma, 12 Aug 2004, *J. Y. Kim*, 1151564 (KH), Mt. Jungwon, 2 Aug 2007, *G. Y. Chung*, 1175224 (KH), Mt. Dobong, 24 Aug 2008, *E. S. Jeon*, 1221007 (KH).

Gangwon, Mt. Eungbong, 31 Aug 2008, *K. O. Yoo et al.*, 1320506 (KH), Myeonghori, 7 Oct 2008, *W. K. Paik*, 1249106 (KH), Hwajinpo, 16 Sep 2010, *Y. C. Kim*, 1327429 (KH), Mine Valley, 12 Sep 2012, *J. W. Jang*, 1416334 (KH), Daem Valley, 13 Sep 2012, *J. W. Jang*, 1416455 (KH), Mt. Ami, 27 Aug 2015, *G. Y. Chung et al.*, JA150827001-JA150827005 (ANH).

Chungbuk, Mt. Cheondeung, 5 Aug 2002, *G. Y. Chung et al.*, (ANH).

Gyeongbuk, Mt. Hakga, 30 Aug 2000, *G. Y. Chung et al.*, (ANH), Mt. taehaeng, 30 Sep 2000, *G. Y. Chung et al.*, (ANH), Mt. Eungbong, 4 Oct 2000, *G. Y. Chung et al.*, E0012524 (ANH), Wangpicheon, 6 Sep 2002, *G. Y. Chung et al.*, (ANH), Mt. Ulryeon, 28 Sep 2002, *G. Y. Chung et al.*, (ANH), Mt. Geomma, 9 Sep 2004, *G. Y. Chung et al.*, (ANH), Mt. Eungbong, 1 Sep 2006, *G. Y. Chung*, 1156788 (KH), Mt. Hakga, 1 Oct 2006, *K. O. Yoo et al.*, 1234291 (KH), Mt. Geumjang, 7 Oct 2007, *G. Y. Chung*, 1175986 (KH), Daeheungri, 14 Oct 2009, *S. H. Oh et al.*, 1305740 (KH), Mt. Mupo, 2 Oct 2010, *G. Y. Chung*, 1285958 (KH), Mt. Geomma, 21 Aug 2014, *G. Y. Chung et al.*, JG140821010-JG140821013 (ANH), Mt. Eungbong, 4 Sep 2014, *G. Y. Chung et al.*, JE140904010-JE140904013 (ANH), Wangpicheon, 6 Sep 2014, *G. Y. Chung et al.*, JW140906010-JW140906015 (ANH), Mt. Ilwol, 31 Aug 2015, *G. Y. Chung et al.*, JI150831010-JI150831015 (ANH), Mt. Ilwol, 14 Sep 2015, *G. Y. Chung et al.*, JI150914010-JI150914014 (ANH).

Jeju, 19 Aug 2002, *E. S. Jeon*, 1029485 (KH).

***Melampyrum setaceum* var. *nakaianum* (Tuyama)**

T. Yamaz. (새머느리밥풀)

Gangwon, Mt. Geombong, 27 Aug 2002, *E. S. Jeon*, 1106695 (KH), Mt. Odae, 29 Aug 2008, *G. Y. Chung et al.*, ANH-00007668 (ANH), Mt. Hwangbyeon, 30 Aug 2008, *G. Y. Chung et al.*, ANH-00007693 (ANH), Mt. Deokhang, 13 Aug 2011, *H. T. Im*, 1347654 (KH), Hasamidong, 15 Aug 2011, *J. O. Hyun et al.*, 1346637 (KH), Mt. Baekseok, 27 Aug 2011, *S. C. Ko et al.*, 1346933 (KH), Okgyemyeon, 7 Sep 2012, *K. S. Lee et al.*, 1375557 (KH), Mt. Ami, 27 Aug 2015, *G. Y. Chung et al.*, JAI50827010-JAI50827015 (ANH), Mt. Jungbong, 20 Aug 2020, *H. J. Kim et al.*, 0002260 (KBA), Mt. Seokbyeong, 9 Sep 2020, *J. H. Lee et al.*, 0002434 (KBA).

Gyengbuk, Mt. Ilwol, 20 Aug 2002, *G. Y. Chung et al.*, (ANH), Sukpori, 23 Jul 2008, *K. H. Bae et al.*, 1223715 (KH), Mt. Baekam, 11 Sep 2009, *J. O. Hyun et al.*, 1252766 (KH),

Mt. WangDoo, 30 Aug 2014, *G. Y. Chung et al.*, JW140830001-JW140830003 (ANH), Mt. Ilwol, 6 Sep 2014, *G. Y. Chung et al.*, JI140906001-JI140906005 (ANH), Mt. Janggunbong, 7 Aug 2015, *G. Y. Chung et al.*, JJ150807001-JJ150807003 (ANH), Mt. Ilwol, 31 Aug 2015, *G. Y. Chung et al.*, JI150831001-JI150831005 (ANH), Mt. Ilwol, 14 Sep 2015, *G. Y. Chung et al.*, JI150914001-JI150914003 (ANH).

***Melampyrum koreanum* K. -J. Kim & S. -M. Yun**

(긴꽃머느리밥풀)

Gyengnam, Isl. Somaemuldo, 9 Oct 2013, *G. Y. Chung et al.*, JS131009001-JS131009010 (ANH), Isl. Somaemuldo, 1 Nov 2013, *G. Y. Chung et al.*, JS131101001-JS131101010 (ANH), Isl. Somaemuldo, 3 Oct 2014, *G. Y. Chung et al.*, JS141003001-JS141003010 (ANH).