



A checklist of endemic plants on the Korean Peninsula

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한반도 특산식물 목록

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ABSTRACT: In order to organize a new checklist for endemic vascular plants of the Korean Peninsula, 358 taxa of the Korea Forest Service and 375 taxa of the National Institute of Biological Resources were reviewed. In addition, the names of previously published endemic plants above the rank of variety were checked up to 2016. From the two lists, a total of 444 taxa were identified. Among them, 289 taxa were common on the two lists, but 69 and 86 taxa were listed only by the Korea Forest Service and by the National Institute of Biological Resources, respectively. Taxonomic documents including journal papers and dissertations were examined with regard to the 444 taxa. In some cases, opinions of Korean experts in this field were also reflected. From the results, 312 taxa in total were recognized as plants endemic to the Korean Peninsula, while 132 taxa could not be included on the endemic list. On the other hand, 48 taxa, none of which existed on the two lists, were newly listed. In conclusion, the new checklist of vascular plants endemic to Korea was confirmed, with a total of 360 taxa consisting of 64 families, 172 genera, 297 species, 4 subspecies, 51 varieties and 8 hybrids. The new common name *Halla-seol-aeng-cho* is given to *Primula farinosa* L. subsp. *modesta* (Bisset & S. Moore) Pax var. *hannasanensis* (T. Yamaz.) T. Yamaz. *Sillaphyton* Pimenov (Deok-u-gi-reum-na-mul-sok) is newly identified as a genus endemic to Korea. However, *Pentactina* Nakai could not be included on the list of Korean vascular endemic genera.

Keywords: Endemic, vascular plants, Korean Peninsula, checklist

적 요: 한반도의 특산 관속식물 목록을 새롭게 정리하기 위하여 Korea Forest Service의 358분류군과 National Institute of Biological Resources의 375분류군의 목록을 재검토하였다. 추가로 2016년까지 변종 이상의 새로운 특산분류군으로 발표된 학명들을 포함하여 목록을 정리하였다. 두 목록을 비교한 결과, 공통분류군은 289분류군, Korea Forest Service 단독 취급 분류군은 69분류군, National Institute of Biological Resources 단독 취급 분류군은 86분류군으로 이들은 총 444분류군으로 취합되었다. 이들 444분류군들에 대

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하여 국내 학위 논문을 포함한 학술자료 및 필요에 따라 국내 전문가들의 의견을 검토한 결과, 한반도 특산으로 인정되는 312분류군 그리고 제외되는 132분류군으로 정리되었다. 추가로 두 목록들에는 언급되지 않았으나 2016년까지 발표된 자료들을 통하여 새로이 48분류군이 특산으로 인정되어 최종적으로 64과 172속 297종 4아종 51변종 8잡종의 총 360분류군을 한반도 특산으로 정리하였다. *Primula farinosa* L. subsp. *modesta* (Bisset & S. Moore) Pax var. *hannasanensis* (T. Yamaz.) T. Yamaz.는 한라설앵초로 국명을 신청하였다. 덕우기름나물속(*Sillaphyton* Pimenov)이 새롭게 한반도 특산속으로 추가되었으며, 그 동안 한반도 특산속으로 취급되어온 금강인가목속(*Pentactina* Nakai)은 특산속에서 제외되었다.

주요어: 특산, 관속식물, 한반도, 목록

특산식물(또는 고유식물; endemic plants)이란 어느 한정된 지역에서만 생육하는 식물을 말하며(Anderson, 1994; Williams et al., 2002; Siljak-Yakovlev and Peruzzi 2012), 이때 한정된 지역이란 일반적으로 국가 단위로 적용하고 있는 실정이다. 최근 국제적으로 생물다양성협약(Convention on Biological Diversity, CBD)과 유전자원에 대한 접근과 이용에 따른 이익의 공정하고 공평한 공유에 관한 나고야의 정서의 발효에 따라 각국이 생물주권을 강화하고 있는 현실에서, 한반도 특산식물이 우리나라의 생물주권에서 최우선적으로 고려되어야 할 대상임은 분명하다(Paik, 1999; Oh et al., 2005; Kim et al., 2009).

한반도의 특산 관속식물은 Nakai (1952)가 1,118분류군을 처음으로 정리한 이후, 현재까지 품종을 제외하면 Lee (1984)가 387분류군, Paik (1999)이 465분류군, Kim (2004)이 340분류군, Oh et al. (2005)이 326 분류군, Korea Forest Service (KFS) (2012)가 358분류군, National Institute of Biological Resources (NIBR) (2013)가 375분류군, 그리고 Park et al. (2013a)이 59분류군으로 정리하는 등 새로이 한반도 특산으로 발표되는 분류군들의 수를 감안하더라도 아직까지 학명 및 분류학적 실체에 대한 이견으로 인해 많은 혼란이 야기되고 있음은 분명하다(Kim et al., 2009).

최근 들어 국내에서 특산으로 간주되던 분류군 중 일부가 러시아, 중국, 일본 등 주변국의 관련 연구에서 새롭게 분포사실이 밝혀지거나 근연 분류군의 이명으로 처리되는 경우가 빈번하다. 그러나 이에 대한 국내학자들 중심의 재검토는 잘 이루어지지 않고 있어 한반도 특산식물들의 실체에 대한 혼란이 가중되고 있다. 그러므로 특산식물에 대한 최근의 연구경향을 반영한 새로운 목록의 제시는 무엇보다도 중요하고 또한 시급한 분류학계의 현안으로 대두되고 있으며, 이는 특산식물에 대한 국가적 주권 주장에 일조할 것이다.

재료 및 방법

본 재검토는 한반도 특산 관속식물과 관련하여 비교적 최근에 국가적 차원에서 제시된 KFS (2012)의 358분류군과 NIBR (2013)의 375분류군의 목록을 중심으로 수행되었다. 아울러 2016년까지 한반도 특산으로 새로이 발표된

모든 학명들을 대상으로 관련 학술지, 학위논문 및 도감 등의 자료들을 검토하였다. 한반도 특산식물의 선정 기준은 다음과 같다. 첫째, 분포지 관점으로 (1) 한국 특산식물은 지구상에서 한반도에만 분포하는 식물로 정의하고, (2) 한국 특산식물로 알려진 분류군에 대하여 중국, 러시아 또는 일본 등의 국외에 분포하는 사실이 학술지 등을 통하여 발표된 객관적인 자료가 있는 경우 해당 분류군에 대한 국내 전문가를 통한 검토과정을 거쳐 특산에서 제외하였다. 둘째, 분류군의 실체 관점으로 국내외 학자가 한반도산 표본을 인용하여 공식적으로 변종이상의 다른 분류군의 이명으로 분류학적 처리를 한 경우 특산식물에서 제외하였으며, 단 표본 등의 근거자료 없이 식물지 등에서 단순히 이명으로 언급된 경우 국내 전문가가 동의하지 않으면 특산으로 처리하였다. 셋째, 분류계급 관점으로 현재 품종으로 취급되는 분류군은 특산식물에서 제외하였으며, 교잡종은 포함하였다. 넷째, 명명규약 관점에서 비합법명(invalid name) 및 서명(illegitimate name)은 실체에 관계없이 특산식물에서 제외하였다.

이상의 기준들을 통하여 한반도 특산식물 목록을 양치식물, 나자식물, 피자식물의 쌍자엽식물과 단자엽식물 순으로 구성하고, 과명과 학명의 알파벳순으로 정리하였다(Appendix 1). 아울러 기존에 KFS (2012) 또는 NIBR (2013)에는 언급되었으나 본 재검토를 통해 특산에서 제외되는 분류군들은 그 사유와 함께 Appendix 2에 제시하였다.

결 과

주 검토 대상인 KFS (2012)와 NIBR (2013)의 목록을 비교한 결과, 두 목록에서 공통적으로 한반도 특산으로 인정하는 분류군은 289분류군, KFS (2012)에서만 인정하는 분류군은 69분류군, 그리고 NIBR (2013)에서만 인정하는 분류군은 86분류군으로 확인되었고, 이들은 종합하면 총 444분류군으로 정리되었다(Table 1). 이들 총 444분류군들에 대한 관련 학술자료 및 국내 전문가들의 검토의견을 기초로 할 때, 최종적으로 한반도 특산으로 인정되는 분류군은 총 312분류군으로서 여기에는 KFS (2012)와 NIBR (2013)에 공통으로 제시된 249분류군, KFS (2012)에서만 취급된 31분류군, NIBR (2013)에서만 취급된 32분류군이

Table 1. Summary and comparison between the present and previous studies of KFS (2012) and NIBR (2013).

No. of taxa	Previous study		Present study			
	KFS (2012)	NIBR (2013)	KFS (2012)	NIBR (2013)	Newly added	Total
Shared		289		249		
Exclusive	69	86	31	32		
Subtotal	358	375	280	281		
Total		444		312	48	360

해당된다(Table 1). 그 외에 양 기관의 목록에는 언급되지 않았으나, 2016년까지 한반도 특산으로 기재되거나 언급된 분류군들 중에서 48분류군이 특산으로 인정되어 본 재검토에서 한반도 특산 관속식물은 총 64과 172속 297종 4아종 51변종 8잡종의 360분류군으로 정리되었다(Table 1).

KFS (2012)와 NIBR (2013)에서 특산으로 취급되었으나 본 연구 결과 특산에서 제외된 분류군은 총 132분류군으로, 두 목록 공통 40분류군, KFS (2012) 단독 취급 38분류군, NIBR (2013) 단독 취급 54분류군이다. 이들을 주요 제외 사유별로 구분하면 (1) 이명처리 되었거나 개체 변이로 추정되어 이명가능성이 있는 95분류군, (2) 주변국 분포사실 확인 25분류군, (3) 품종으로 취급되는 3분류군, (4) 학명표기 오류 및 비합법명 또는 서명 8분류군, 그리고 (5) 학명출처 불확실 1분류군이다(Appendix 2).

고 찰

본 연구 결과 한반도 특산으로 제시된 360분류군 중 몇 가지 특이사항은 다음과 같다. 장수만리화의 경우 KFS (2012)에서는 1942년 발표된 *Forsythia velutina* Nakai를 학명으로 정리하고 있으나, NIBR (2013)은 Lee (1966)가 *Rangium nakaii* Uyeki를 *Forsythia* Vahl로 조합한 *F. nakaii* (Uyeki) T. B. Lee를 정명으로 제시하고 있다. 이와 관련하여 De Juana Clavero (2016)는 *Rangium* Juss.가 *Forsythia*의 이명으로 처리되었기 때문에 1940년 발표된 *R. nakaii*가 종 계급에서 선취권이 인정되어 *F. nakaii*를 장수만리화의 정명으로 사용해야 한다고 하였으며, 이는 조류, 균류와 식물에 대한 국제명명규약 (International Code of Nomenclature for Algae, Fungi, and Plants, ICN)의 11조 4항에 따른 것이다. 따라서 본 목록에서는 장수만리화의 정명을 *F. nakaii*로 하였다. 제주도 및 내륙에 자생하는 것으로 알려졌던 설앵초의 경우 두 목록에서 모두 *Primula modesta* Bisset & S. Moore var. *hannasanensis* T. Yamaz.를 정명으로 특산으로 처리하고 있다. 그러나 Yamazaki (2003)는 제주도 외에 경상남도 내륙에서 설앵초로 동정되는 집단을 *P. farinosa* L. subsp. *modesta* (Bisset & S. Moore) Pax var. *koreana* T. Yamaz.로 신변종 처리하였다. 따라서 *P. farinosa* subsp. *modesta* var. *koreana*를 설앵초의 학명으로 제시하고, 제주도에 분포하는 *P. farinosa* L. subsp.

modesta (Bisset & S. Moore) Pax var. *hannasanensis* (T. Yamaz.) T. Yamaz.는 한라설앵초로 새로운 국명을 부여하였다.

특산에서 제외된 132분류군 중 긴팽이싸리 [*Lespedeza pilosa* (Thunb.) Siebold & Zucc var. *pedunculata* T. B. Lee] 와 진보라붓꽃 [*Iris sanguinea* Donn ex Hornem. var. *violacea* Makino]은 해당 분류군 국내 전문가만의 의견을 참고하여 근연종의 개체 변이로 판단되어 제외하였다. 주변국 분포사실 확인된 25분류군의 경우, 중국에서 확인된 것이 20건으로 가장 많았고 일본이 10건, 러시아 5건, 몽골과 북아메리카가 각각 1건이었다. NIBR (2013)에서 한라세모부추의 학명으로 제시한 *Allium taquetii* H. Lév. var. *deltoides* (S. Yu, S. Lee & W. Lee) H. J. Choi & B. U. Oh는 Oh (2007b)의 학명표기 오류가 반영된 것으로 확인되었다. 금강고사리 [*Dryopteris austriaca* (Jacq.) Woy. ex Schinz & Thell. var. *subopposita* H. Ito]는 현재까지 학명의 출처를 확인할 수 없기에 제외하였다.

새롭게 한반도 특산속으로 추가된 것은 덕우기름나물속 (*Sillaphyton* Pimenov)이다. 최근에 Pimenov et al. (2016)은 *S. podagraria* (H. Boissieu) Pimenov (= *Peucedanum podagraria* H. Boissieu)을 기준으로 본 속을 신설하며 한반도 특산으로 제시하였다. 반면 한반도 특산 속으로 취급되어 온 금강인가목속 (*Pentactina* Nakai)은 Yakubov (2014)에 의해 러시아 극동지역에 분포하는 *Spiraea schlothauerae* Ignatov & Worosch이 *P. schlothauerae* (Ignatov & Worosch.) V. Yakubov로 소속을 변경함으로 특산 속에서 제외하여야 할 것으로 판단된다. 결과적으로 한반도 특산속은 미선나무속 (*Abeliophyllum* Nakai), 매미꽃속 (*Coreanomecon* Nakai), 금강초롱꽃속 (*Hanabusaya* Nakai), 제주고사리삼속 (*Mankyua* B.-Y. Sun, M. H. Kim & C. H. Kim) 및 모데미풀속 (*Megaleranthis* Ohwi)을 포함하여 총 6속으로 정리되었다.

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Appendix 1. Checklist of Korean endemic vascular plants.

The information is listed as follow; scientific and vernacular names, distribution and reference. The asterisk (*) indicates additional taxa from KFS (2012) and NIBR (2013). Acronyms for each province are: HB, Hamgyeongbuk-do; HN, Hamgyeongnam-do; PB, Pyeonganbuk-do; PN, Pyeongannam-do; HW, Hwanghae-do; GW, Gangwon-do; GG, Gyeonggi-do; CB, Chungcheongbuk-do; CN, Chungcheongnam-do; GB, Gyeongsangbuk-do; GN, Gyeongsangnam-do; JB, Jeollabuk-do; JN, Jeollanam-do; JJ, Jeju-do.

PTERIDOPHYTA 양치식물문

Adiantaceae 공작고사리과

1 *Adiantum coreanum* Tagawa 고려공작고사리, HB, KFS (2012); NIBR (2013)

Aspleniaceae 꼬리고사리과

*2 *Asplenium ×montanum* C. S. Lee & K. Lee 산꼬리고사리, GG, Lee et al. (2015)

*3 *Asplenium ×uiryeonse* C. S. Lee & K. Lee 거미사철고사리, GG, Lee et al. (2015)

Athyriaceae 개고사리과

4 *Athyrium acutipinnulum* Kodama ex Nakai 섬고사리, GB (Ulleungdo), KFS (2012)

Isoetaceae 물부추과

5 *Isoetes coreana* Y. H. Chung & H. K. Choi 참물부추, central to southern provinces, KFS (2012); NIBR (2013)

6 *Isoetes hallasanensis* H. K. Choi, C. Kim & J. Jung 한라물부추, JJ, KFS (2012); NIBR (2013)

7 *Isoetes jejuensis* H. K. Choi, C. Kim & J. Jung 제주물부추, JJ, KFS (2012); NIBR (2013)

Lycopodiaceae 석송과

8 *Huperzia jejuensis* B.-Y. Sun & J. Lim 긴다람쥐꼬리, JJ, KFS (2012); NIBR (2013); Lim and Sun (2015)

Ophioglossaceae 고사리삼과

9 *Mankyua chejuense* B.-Y. Sun, M. H. Kim & C. H. Kim 제주고사리삼, JJ, KFS (2012); NIBR (2013)

GYMNOSPERMAE 나자식물문

Pinaceae 소나무과

10 *Abies koreana* E. H. Wilson 구상나무, JB; GN; JJ, KFS (2012); NIBR (2013)

11 *Picea pungsanensis* Uyeki 풍산가문비나무, HB; HN, KFS (2012); NIBR (2013)

ANGIOSPERMAE 피자식물문

DICOTYLEDONEAE 쌍자엽식물강

Apiaceae 산형과

*12 *Angelica reflexa* B. Y. Lee 강활, GW, Lee et al. (2013a)

13 *Bupleurum latissimum* Nakai 섬시호, GB (Ulleungdo), KFS (2012); NIBR (2013)

14 *Dystaenia takesimana* (Nakai) Kitag. 섬바디, GB (Ulleungdo), KFS (2012); NIBR (2013)

15 *Peucedanum coreanum* Nakai 두메기름나물, GW, KFS (2012); NIBR (2013)

16 *Pimpinella brachycarpa* (Kom.) Nakai var. *uchiyamana* (Y. Yabe ex Nakai) W. Lee & G. Jang 그늘참나물, PB; PN; HW; GW; GG, KFS (2012); NIBR (2013)

17 *Pimpinella hallaisanensis* (W. Lee & G. Jang) G. Jang, W. Paik & W. Lee 한라참나물, JJ (Hallasan), KFS (2012); NIBR (2013)

18 *Sillaphyton podagraria* (H. Boissieu) Pimenov 덕우기름나물, GW, KFS (2012); NIBR (2013)

19 *Sium ternifolium* B. Y. Lee & S. C. Ko 세잎개발나물, GW (Chiaksan), KFS (2012); NIBR (2013)

Aquifoliaceae 감탕나무과

*20 *Ilex ×wandoensis* C. F. Miller & M. Kim 완도호랑가시나무, JN (Wando), Miller and Kim (2002)

Araliaceae 두릅나무과

21 *Eleutherococcus divaricatus* (Siebold & Zucc.) S.Y. Hu var. *chiisanensis* (Nakai) C. H. Kim & B.-Y. Sun 지리산오갈피나무, HB; HN; GW; GB; JB; JN; JJ, KFS (2012); NIBR (2013)

Aristolochiaceae 쥐방울덩굴과

22 *Asarum maculatum* Nakai 개족도리풀, JN; GN; JJ, KFS (2012); NIBR (2013)

23 *Asarum patens* (Yamaki) Yamaki ex Y. Lee 금오족도리풀, CN; GB, KFS (2012)

*24 *Asarum versicolor* (Yamaki) Y. Lee 무너족도리풀, GW; GG; CB, Oh (2008)

Asteraceae 국화과

- 25 *Achillea alpina* L. subsp. *rhodoptarmica* (Nakai) Kitam. 붉은톱풀, HB, KFS (2012); NIBR (2013)
- 26 *Artemisia hallaisanensis* Nakai 섬쑥, JJ (Hallasan), KFS (2012); NIBR (2013)
- 27 *Aster chusanensis* Y. S. Lim, J. O. Hyun, Y. D. Kim & H. Shin 추산쑥부쟁이, GB (Ulleungdo), KFS (2012)
- 28 *Aster hayatae* H. Lév. & Vaniot 눈갯쑥부쟁이, JJ (Hallasan), KFS (2012); NIBR (2013)
- 29 *Aster koraiensis* Nakai 별개미취, all provinces (mainly planted), KFS (2012); NIBR (2013)
- *30 *Aster magnus* Y. Lee & C. Kim 왕갯쑥부쟁이, JJ, Lee (1998)
- 31 *Aster pseudoglehnii* Y. S. Lim, J. O. Hyun & H. Shin 섬쑥부쟁이, GB (Ulleungdo), KFS (2012)
- 32 *Aster uchiyamai* Nakai 단양쑥부쟁이, GG (Yeosu); CB (Danyang), KFS (2012); NIBR (2013)
- 33 *Chrysanthemum coreanum* (H. Lév. & Vaniot) Nakai 한라구절초, JJ (Hallasan), KFS (2012); NIBR (2013)
- 34 *Chrysanthemum sinchangense* Uyeki 신창구절초, PN, KFS (2012); NIBR (2013)
- 35 *Chrysanthemum zawadskii* Herbich. subsp. *lucidum* (Nakai) Y. Lee 울릉국화, GB (Ulleungdo), KFS (2012); NIBR (2013)
- 36 *Cirsium rhinoceros* (H. Lév. & Vaniot) Nakai 바늘엉겅퀴, GG; GN; JJ, KFS (2012); NIBR (2013)
- 37 *Cirsium setidens* (Dunn) Nakai 고려엉겅퀴, all provinces except JJ, KFS (2012); NIBR (2013)
- 38 *Cirsium setidens* (Dunn) Nakai var. *niveoaranum* Kitam. 흰잎고려엉겅퀴, HN; PN; GW; GG; CB; CN; GB; GN; JB; JN, NIBR (2013)
- 39 *Cirsium zenii* Nakai 점봉산엉겅퀴, GW (Jeombongsan), NIBR (2013)
- *40 *Crepidiastrum hallaisanense* (H. Lév.) J. H. Pak 한라고들빼기, JJ (Hallasan), Pak et al. (2001)
- 41 *Crepidiastrum koidzumianum* (Kitam.) J. H. Pak & Kawano 지리고들빼기, GN (Jirisan), KFS (2012); NIBR (2013)
- 42 *Hololeion maximowiczii* Kitam. var. *fauriei* (H. Lév. & Vaniot) J.H. Pak 줄계묵, GG; GB; GN; JB; JN, KFS (2012); NIBR (2013)
- 43 *Ixeris × chinodebilis* Kitam. 함흥쑥바귀, HN, KFS (2012); NIBR (2013)
- 44 *Leontopodium coreanum* Nakai 솜다리, GW; GG; CB; GB, KFS (2012); NIBR (2013)
- 45 *Leontopodium coreanum* Nakai var. *hallaisanense* (Hand.-Mazz.) D. H. Lee & B. H. Choi 한라솜다리, JJ (Hallasan), KFS (2012); NIBR (2013)
- 46 *Leontopodium leiolepis* Nakai 산솜다리, HB; HN; PB; GW, KFS (2012); NIBR (2013)
- 47 *Ligularia fischeri* (Ledeb.) Turcz. var. *spiciformis* Nakai 한대리곰취, HN, KFS (2012); NIBR (2013)
- 48 *Ligularia taquetii* (H. Lév. & Vaniot) Nakai 갯취, GN (Geojedo); JJ, KFS (2012); NIBR (2013)
- 49 *Parasenecio pseudotamingasa* (Nakai) B. U. Oh 어리병풍, CB; GN, KFS (2012); NIBR (2013)
- 50 *Saussurea calcicola* Nakai 사창분취, GW, KFS (2012); NIBR (2013)
- 51 *Saussurea chabyoungsanica* H.T. Im 자병취, GW, KFS (2012); NIBR (2013)
- 52 *Saussurea conandrifolia* Nakai 담배취, HB; PB, KFS (2012); NIBR (2013)
- 53 *Saussurea diamantiaca* Nakai 금강분취, HN; PN; GW(Geumgansan; Seoraksan), KFS (2012); NIBR (2013)
- 54 *Saussurea eriophylla* Nakai 솜분취, GW, KFS (2012); NIBR (2013)
- 55 *Saussurea grandicapitula* W. Kee et H. T. Im 태백취, GW (Taekbaeksan), KFS (2012)
- 56 *Saussurea koidzumiana* Kitam. 경성서덜취, HB; GW (Goseong), KFS (2012); NIBR (2013)
- 57 *Saussurea komaroviana* Lipsch. 비단분취, HB; HN, KFS (2012); NIBR (2013)
- 58 *Saussurea macrolepis* (Nakai) Kitam. 각시서덜취, GG; GB; GN; JN, KFS (2012); NIBR (2013)
- 59 *Saussurea myokoensis* Kitam. 묘향분취, PB, KFS (2012); NIBR (2013)
- 60 *Saussurea polyplepis* Nakai 홍도서덜취, JN (Hongdo; Maegado), KFS (2012); NIBR (2013)
- 61 *Saussurea rectinervis* Nakai 백설취, HB; HN; PB; PN, KFS (2012); NIBR (2013)
- 62 *Saussurea rorinsanensis* Nakai 털분취, PB, KFS (2012); NIBR (2013)
- 63 *Saussurea seoulensis* Nakai 분취, GW; GG, KFS (2012); NIBR (2013)
- 64 *Saussurea uchiyamana* Nakai 그늘취, GG, KFS (2012); NIBR (2013)
- 65 *Saussurea umbrosa* Kom. var. *herbicola* Nakai 긴산취, HN, NIBR (2013)
- 66 *Taraxacum hallaisanense* Nakai 쯤민들레, JJ (Hallasan), KFS (2012); NIBR (2013)

Balsaminaceae 봉선화과

- 67 *Impatiens atrosanguinea* (Nakai) B. U. Oh & Y. P. Hong 가야물봉선, GN (Gayasan), NIBR (2013)
- *68 *Impatiens furcillata* Hemsl. 처진물봉선, GN; JN, Ji et al. (2010)

Berberidaceae 매자나무과

- 69 *Berberis amurensis* Rupr. var. *quelpaertensis* (Nakai) Nakai 섬매발톱나무, JJ (Hallasan), KFS (2012); NIBR (2013)
 70 *Berberis koreana* Palib. 매자나무, GW; GG; CB, KFS (2012); NIBR (2013)
 71 *Berberis koreana* Palib. var. *angustifolia* Nakai 가는잎매자나무, GW (Geombulsan), NIBR (2013)
 72 *Berberis koreana* Palib. var. *ellipsoidea* Nakai 연잎매자나무, GW (Geombulsan; Jangjigansan), KFS (2012)

Betulaceae 자작나무과

- 73 *Carpinus laxiflora* (Siebold et Zucc.) Blume var. *longispica* Uyeki 긴서어나무, JB; JN; GN, KFS (2012); NIBR (2013)

Brassicaceae 십자화과

- 74 *Arabis columnaris* Nakai 참장대나물, JN (Jirisan), KFS (2012); NIBR (2013)
 *75 *Arabis erecta* Y. Y. Kim & C. G. Jang 선갯장대, GB, Kim et al. (2016b)
 76 *Arabis takesimana* Nakai 섬장대, GB (Ulleungdo), NIBR (2013)
 *77 *Cardamine amariformis* Nakai 꽃황새냉이, GW; CB; GB; GN, Kim (2015c)
 78 *Rorippa apetala* Y. Y. Kim & B. U. Oh 섬강개갯냉이, GW (Wonju), KFS (2012)

Campanulaceae 초롱꽃과

- 79 *Adenophora erecta* S. Lee, J. Lee & S. Kim 선모시대, GB (Ulleungdo), KFS (2012); NIBR (2013)
 80 *Adenophora kayasanensis* Kitam. 가야산잔대, GB; GN (Gayasan), KFS (2012); NIBR (2013)
 81 *Adenophora koreana* Kitam. 꽃잔대, HN; PB; GW (Geumgansan), KFS (2012); NIBR (2013)
 82 *Adenophora racemosa* J. K. Lee & S. T. Lee 외대잔대, GW; GB, KFS (2012); NIBR (2013)
 83 *Adenophora remotidens* Hemsl. 인천잔대, GG (Incheon), KFS (2012); NIBR (2013)
 *84 *Adenophora remotiflora* (Siebold & Zucc.) Miq. var. *hirticalyx* S. Lee, Y. Chung, & J. Lee 그늘모시대, JB (Jirisan), Lee et al. (1990)
 85 *Adenophora taquetii* H. Lév. 섬잔대, JJ (Hallasan), KFS (2012); NIBR (2013)
 86 *Adenophora verticillata* Fisch. var. *abbreviata* H. Lév. 줌층층잔대, JJ (Hallasan), KFS (2012); NIBR (2013)
 87 *Campanula takesimana* Nakai 섬초롱꽃, GB (Ulleungdo), KFS (2012); NIBR (2013)
 88 *Codonopsis minima* Nakai 애기더덕, JJ (Hallasan), KFS (2012); NIBR (2013)
 89 *Hanabusaya asiatica* (Nakai) Nakai 금강초롱꽃, HN; PN; GW; GG, KFS (2012); NIBR (2013)
 90 *Hanabusaya latise-pala* Nakai 검산초롱꽃, PB; HN, KFS (2012); NIBR (2013)

Caprifoliaceae 인동과

- 91 *Lonicera insularis* Nakai 섬괴불나무, GB (Ulleungdo), NIBR (2013)
 92 *Lonicera maximowiczii* (Rupr.) Regel var. *latifolia* (Ohwi) H. Hara 흰등괴불나무, JN (Jirisan); JJ (Hallasan), KFS (2012)
 93 *Lonicera subsessilis* Rehder 청괴불나무, all provinces except CN and JJ, KFS (2012); NIBR (2013)
 94 *Sambucus racemosa* L. subsp. *pendula* (Nakai) H. I. Lim & Chin. S. Chang 말오춤나무, GB (Ulleungdo), Lim et al. (2009); KFS (2012)
 95 *Weigela subsessilis* (Nakai) L. H. Bailey 병꽃나무, all provinces, KFS (2012); NIBR (2013)
 *96 *Zabelia densipila* M. P. Hong, Y. C. Kim & B. Y. Lee 긴털댕강나무, GW (Yeongwol), Hong et al. (2012)
 97 *Zabelia tyaihyonii* (Nakai) Hisauti & H. Hara 줄댕강나무, PN; CB (Danyang), KFS (2012); NIBR (2013)

Caryophyllaceae 석죽과

- 98 *Pseudostellaria coreana* (Nakai) Ohwi 참개별꽃, GG; GN; JJ, KFS (2012)
 *99 *Pseudostellaria longipedicellata* S. Lee, K. Heo & S. C. Kim 태백개별꽃, GW; GG; GB, Lee et al. (2012b)
 100 *Pseudostellaria monantha* Ohwi 산개별꽃, GN (Jirisan); JJ, KFS (2012); NIBR (2013)
 101 *Pseudostellaria okamotoi* Ohwi 지리산개별꽃, GN (Jirisan), KFS (2012); NIBR (2013)
 102 *Pseudostellaria setulosa* Ohwi 숲개별꽃, HN; GW; GB, KFS (2012); NIBR (2013)
 103 *Silene fasciculata* Nakai 한라장구채, JJ (Hallasan), KFS (2012); NIBR (2013)
 104 *Silene myongcheonensis* S. P. Hong & H. K. Moon 명천장구채, HB (Chilbosan), KFS (2012); NIBR (2013)
 105 *Silene takeshimensis* Uyeki & Sakata 울릉장구채, GB (Ulleungdo), KFS (2012); NIBR (2013)

Chenopodiaceae 명아주과

- 106 *Axyris koreana* Nakai 털나도맷싸리, HB; HN, KFS (2012); NIBR (2013)

Clusiaceae 물레나물과

- 107 *Hypericum chejuense* S.-J. Park & K.-J. Kim 제주고추나물, JJ, KFS (2012)
 108 *Hypericum jeongjocksanense* S.-J. Park & K.-J. Kim 정족산고추나물, GN (Jeongjoksan), KFS (2012)

Crassulaceae 돌나물과

- 109 *Hylotelephium viridescens* (Nakai) H. Ohba 섬평의비름, JN; JJ, KFS (2012); NIBR (2013)
 *110 *Orostachys margaritifolia* Y. Lee 진주바위솔, GN (Jinju), Lee and Lee (2000)
 111 *Orostachys saxatilis* (Nakai) Nakai 모란바위솔, PN, KFS (2012); NIBR (2013)
 112 *Sedum latiovalifolium* Y. Lee 태백기린초, GW, KFS (2012); NIBR (2013)
 113 *Seum takesimense* Nakai 섬기린초, GB (Ulleungdo), KFS (2012); NIBR (2013)
 *114 *Sedum taquetii* Praeger 한라평의비름, JJ (Hallasan), Chung and Kim (1990)

Euphorbiaceae 대극과

- 115 *Euphorbia fauriei* H. Lév. & Vaniot 두메대극, JJ (Hallasan), KFS (2012); NIBR (2013)
 116 *Glochidion chodoense* C. S. Lee & H. T. Im 조도만두나무, JN (Jodo; Jindo), KFS (2012)

Fabaceae 콩과

- 117 *Astragalus mongholicus* Bunge var. *nakaianus* (Y. Lee) I.S. Choi & B.H. Choi 제주황기, JJ (Hallasan), NIBR (2013); Choi et al. (2015)
 *118 *Astragalus setsureianus* Nakai 설령황기, HB; HN, Choi et al. (2015)
 119 *Indigofera grandiflora* B. H. Choi & S. Cho 큰꽃땅비싸리, GB (Gayasan), KFS (2012); NIBR (2013)
 120 *Indigofera koreana* Ohwi 좁땅비싸리, CN; JB; JN, KFS (2012); NIBR (2013)
 121 *Lespedeza maritima* Nakai 해변싸리, GW; CN; GB; GN, KFS (2012); NIBR (2013)
 122 *Lespedeza maximowiczii* C. K. Schneid. var. *tricolor* (Nakai) Nakai 삼색싸리, JN (Wando; Jindo); GN, NIBR (2013)
 123 *Maackia fauriei* (H. Lév.) Takeda 솔비나무, JJ (Hallasan), KFS (2012); NIBR (2013)
 124 *Sophora koreensis* Nakai 개느삼, HN; GW (Inje; Yanggu; Chuncheon), KFS (2012); NIBR (2013)
 125 *Vicia chosenensis* Ohwi 노랑갈퀴, all provinces except JJ, KFS (2012); NIBR (2013)
 126 *Vicia hirticalycina* Nakai 나래완두, GB; GN; JB; JN, KFS (2012); NIBR (2013)
 *127 *Vicia unijuga* A. Br. var. *kausanensis* H. Lév. 애기나비나물, JJ, Seok and Choi (1997)

Fagaceae 참나무과

- *128 *Fagus multinervis* Nakai 너도밤나무, GB (Ulleungdo), Oh (2015)

Fumariaceae 현호색과

- 129 *Corydalis alata* B. U. Oh & W.R. Lee 날개현호색, GW; GB, KFS (2012)
 130 *Corydalis albipetala* B. U. Oh 흰현호색, GW, KFS (2012); NIBR (2013)
 131 *Corydalis cornupetala* Y. H. Kim & J.H. Jeong 쇠뿔현호색, GB, KFS (2012)
 132 *Corydalis filistipes* Nakai 섬현호색, GB (Ulleungdo), KFS (2012); NIBR (2013)
 133 *Corydalis grandicalyx* B. U. Oh & Y.S. Kim 갈퀴현호색, GW; GG; GB, KFS (2012); NIBR (2013)
 134 *Corydalis hallaisanensis* H. Lév. 탐라현호색, JJ, KFS (2012); NIBR (2013)
 135 *Corydalis hirtipes* B. U. Oh & J. G. Kim 털현호색, GW, NIBR (2013)
 136 *Corydalis humilis* B. U. Oh & Y. S. Kim 난장이현호색, GG; CB (Sobaeksan); GB (Tohamsan), NIBR (2013)
 137 *Corydalis maculata* B. U. Oh & Y. S. Kim 점현호색, GW; GG; GB, KFS (2012); NIBR (2013)
 138 *Corydalis misandra* B. U. Oh 각시현호색, GW; GG, KFS (2012)
 *139 *Corydalis namdoensis* B. U. Oh & J. G. Kim 남도현호색, GB; JB, Oh et al. (2004)
 *140 *Corydalis ohii* Lidén 선현호색, GW; GG; CB; JB; JJ, Yang (2016)

Gentianaceae 용담과

- 141 *Gentiana chosonica* Okuyama 흰그늘용담, JJ (Hallasan), KFS (2012); NIBR (2013)
 *142 *Gentiana squarrosa* Ledeb. var. *microphylla* Nakai 좁구슬봉이, JJ (Hallasan), Paik et al. (2001)
 143 *Gentiana takahashii* T. Mori 백두산구슬봉이, HB (Baekdusan), KFS (2012); NIBR (2013)
 144 *Gentiana wootchuliana* W. Paik 고산구슬봉이, GN (Gayasan), KFS (2012); NIBR (2013)

Geraniaceae 쥐손이풀과

- 145 *Geranium knuthii* Nakai 큰세잎쥐손이, HN; PB; HW; GG, KFS (2012); NIBR (2013)
 146 *Geranium koreanum* Kom. var. *hirsutum* Nakai 털등근이질풀, GW; GG; GB; GN; JJ, KFS (2012); NIBR (2013)

147 *Geranium lasiocaulon* Nakai 갈미취손이, HB, KFS (2012); NIBR (2013)

148 *Geranium taebaek* S. J. Park & Y. S. Kim 태백이질풀, GW (Taebaeksan), KFS (2012); NIBR (2013)

Lamiaceae 꿀풀과

149 *Ajuga spectabilis* Nakai 자란초, central to southern provinces, KFS (2012); NIBR (2013)

150 *Elsholtzia byeonsanensis* M. Kim 변산향유, JB (Byeonsan), NIBR (2013)

151 *Elsholtzia minima* Nakai 좁향유, JJ (Hallasan), KFS (2012); NIBR (2013)

152 *Elsholtzia splendens* Nakai ex F. Maek. var. *fasciflora* N. S. Lee, M. S. Chung & C. S. Lee 다발꽃향유, JJ (Seogwipo), KFS (2012)

153 *Isodon inflexus* (Thunb.) Kudô var. *canescens* (Nakai) Kudô 털산박하, JJ (Chujado), NIBR (2013); Ma and Kim (2014)

154 *Lamium takeshimense* Nakai 섬광대수염, GB (Ulleungdo), KFS (2012); NIBR (2013)

*155 *Paraphlomis koreana* S. C. Ko & G. Y. Chung 속단아재비, JN (Bogildo), Ko et al. (2014)

156 *Salvia chanryoenica* Nakai 참배암차즈기, GW; GG; CB; GW; GN, KFS (2012); NIBR (2013)

157 *Scutellaria asperiflora* Nakai 다발골무꽃, HN, KFS (2012); NIBR (2013)

158 *Scutellaria indica* L. var. *coccinea* S. Kim & S. Lee 연지골무꽃, JJ, KFS (2012); NIBR (2013)

159 *Scutellaria insignis* Nakai 광릉골무꽃, central provinces, KFS (2012); NIBR (2013)

160 *Scutellaria pekinensis* Maxim. var. *maxima* S. Kim & S. Lee 왕골무꽃, GW; GG; CB, NIBR (2013)

161 *Thymus quinquecostatus* Celak. var. *magnus* (Nakai) Kitam. 섬백리향, GB (Ulleungdo), KFS (2012)

Moraceae 뽕나무과

*162 *Broussonetia ×hanjiana* M. Kim 닥나무, JN (Gageodo), Yun and Kim (2009)

Nymphaeaceae 수련과

163 *Nymphaea tetragona* Georgi var. *minima* (Nakai) W.T. Lee 각시수련, HW; GW (Goseong), KFS (2012); NIBR (2013)

Oleaceae 물푸레나무과

164 *Abeliophyllum distichum* Nakai 미선나무, CB (Goesan; Yeongdong; Jincheon); JB (Buan); GB (Andong), KFS (2012); NIBR (2013)

165 *Forsythia koreana* (Rehder) Nakai 개나리, nearly all provinces; probably originating in central Korea, KFS (2012); NIBR (2013)

166 *Forsythia ovata* Nakai 만리화, HW; GW; GG; JB, KFS (2012); NIBR (2013)

167 *Forsythia nakaii* (Uyeki) T. B. Lee 장수만리화, HW (Jansusan), KFS (2012); NIBR (2013)

168 *Fraxinus chiisanensis* Nakai 물들메나무, JB (Deogyusan); JN (Jirisan), KFS (2012); NIBR (2013)

169 *Ligustrum foliosum* Nakai 섬취뚱나무, GB (Ulleungdo), KFS (2012); NIBR (2013)

Orobanchaceae 열당과

170 *Orobanche filicicola* Nakai ex J. O. Hyun, Y. S. Im & H. C. Shin 백양터부살이, JB; JN; JJ, KFS (2012); NIBR (2013)

Papaveraceae 양귀비과

171 *Coreanomecon hylomeconoides* Nakai 매미꽃, GN; JB; JN, KFS (2012); NIBR (2013)

Phytolaccaceae 자리공과

172 *Phytolacca insularis* Nakai 섬자리공, GB (Ulleungdo), KFS (2012); NIBR (2013)

Polygonaceae 마디풀과

173 *Aconogonon brachytrichum* (Ohwi) Sojak 털싱아, HB, KFS (2012); NIBR (2013)

174 *Aconogonon microcarpum* (Kitag.) H. Hara 참개싱아, HN; GW; GG, KFS (2012); NIBR (2013)

175 *Aconogonon mollifolium* (Kitag.) H. Hara 얇은개싱아, HB; HN; PB, KFS (2012); NIBR (2013)

176 *Bistorta globispica* Nakai 둥근범꼬리, HB, KFS (2012); NIBR (2013)

177 *Fallopia koreana* B. U. Oh & J. G. Kim 삼도하수오, CB; GB; JN, KFS (2012); NIBR (2013)

178 *Rheum coreanum* Nakai 장군풀, HB; HN, KFS (2012); NIBR (2013)

Primulaceae 앵초과

179 *Androsace cortusifolia* Nakai 금강봄맞이, GW, KFS (2012); NIBR (2013)

180 *Lysimachia coreana* Nakai 참좁쌀풀, HN; GW; GG; CB; GB, KFS (2012); NIBR (2013)

181 *Lysimachia quelpaertensis* K. H. Tae & J. S. Lee 탐라까치수염, JJ (Seogwipo), KFS (2012)

182 *Primula farinosa* L. subsp. *modesta* (Bisset & S. Moore) Pax var. *hamasanensis* (T. Yamaz.) T. Yamaz. 한라설앵초, JJ (Hallasan), KFS (2012); NIBR (2013)

*183 *Primula farinosa* L. subsp. *modesta* (Bisset & S. Moore) Pax var. *koreana* T. Yamaz. 설앵초, GN, Yamazaki (2003)

Ranunculaceae 미나리아재비과

- 184 *Aconitum austrokoreense* Koidz. 세뿔투구꽃, GB; GN, KFS (2012); NIBR (2013)
 185 *Aconitum chiisanense* Nakai 지리바꽃, GW; GN, KFS (2012); NIBR (2013)
 186 *Aconitum pseudolaevae* Nakai 진범, all provinces except JJ, KFS (2012); NIBR (2013)
 187 *Aconitum pteropus* Nakai 날개진범, GW, KFS (2012); NIBR (2013)
 188 *Aconitum quelpaertense* Nakai 한라투구꽃, JJ (Hallasan), KFS (2012); NIBR (2013)
 189 *Anemone koraiensis* Nakai 홀아비바람꽃, northern to central provinces, KFS (2012); NIBR (2013)
 190 *Callianthemum insigne* (Nakai) Nakai 매화바람꽃, HB, KFS (2012); NIBR (2013)
 191 *Cimicifuga austrokoreana* H.-W. Lee & C.-W. Park 나제승마, CB; GN; JB; JN, KFS (2012); NIBR (2013)
 192 *Cimicifuga heracleifolia* Kom. var. *bifida* Nakai 세잎승마, HN; GW; CN; GN, KFS (2012); NIBR (2013)
 193 *Clematis brachyura* Maxim. 외대으아리, all provinces except CN and JJ, KFS (2012); NIBR (2013)
 194 *Clematis calcicola* J. S. Kim 바위중덩굴, GW (Samcheok), KFS (2012); NIBR (2013)
 *195 *Clematis taeguensis* Y. Lee 대구으아리, GW; CB; GB, Lee (1982)
 196 *Clematis trichotoma* Nakai 할미밀망, all provinces except HB and JJ, KFS (2012); NIBR (2013)
 197 *Eranthis byunsanensis* B.-Y. Sun 변산바람꽃, GW; GG; GB; GN; JB; JN; JJ, KFS (2012); NIBR (2013)
 198 *Eranthis pungdoensis* B. U. Oh 풍도바람꽃, GG (Pungdo), KFS (2012); NIBR (2013)
 199 *Hepatica insularis* Nakai 새끼노루귀, JN; GN; JJ, KFS (2012); NIBR (2013)
 200 *Hepatica maxima* (Nakai) Nakai 섬노루귀, GB (Ulleungdo), KFS (2012); NIBR (2013)
 201 *Megaleranthis saniculifolia* Ohwi 모데미풀, PB; GW; GB; JB; JJ, KFS (2012); NIBR (2013)
 202 *Pulsatilla nivalis* Nakai 산할미꽃, HB, KFS (2012); NIBR (2013)
 203 *Pulsatilla tongkangensis* Y. Lee & T. C. Lee 동강할미꽃, GW; CB, KFS (2012); NIBR (2013)
 204 *Ranunculus crucilobus* H. Lév. 바위미나리아재비, JJ (Hallasan), NIBR (2013)
 205 *Thalictrum acteifolium* Siebold et Zucc. var. *brevistylum* Nakai 은평의다리, GW; GG; CB; CN; GB; GN; JB; JN, NIBR (2013)
 *206 *Thalictrum ichangense* Lecoy. ex Oliv. var. *coreanum* (H. Lév.) H. Lév. ex Tamura 연잎평의다리, GW; GB, Tamura (1953)
 207 *Thalictrum osmorhizoides* Nakai 그늘평의다리, HB, KFS (2012); NIBR (2013)

Rhamnaceae 갈매나무과

- 208 *Rhamnus taquetii* (H. Lév. & Vaniot) H. Lév. 좁갈매나무, JJ (Hallasan), KFS (2012); NIBR (2013)

Rosaceae 장미과

- 209 *Aruncus aethusifolius* (H. Lév.) Nakai 한라개승마, JJ (Hallasan), KFS (2012); NIBR (2013)
 210 *Cotoneaster wilsonii* Nakai 섬개야광나무, GB (Ulleungdo), KFS (2012); NIBR (2013)
 211 *Filipendula formosa* Nakai 지리터리풀, JB; JN; GN, KFS (2012); NIBR (2013)
 212 *Pentactina rupicola* Nakai 금강인가목, GW (Geumgangsán), KFS (2012); NIBR (2013)
 *213 *Potentilla gageodoensis* M. Kim 가거양지꽃, JN (Gageodo), So et al. (2014)
 214 *Prunus choreiana* Nakai ex H.T. Im 복사앵도, HB; PN; GW; GB, KFS (2012); NIBR (2013)
 215 *Prunus ishidoyana* Nakai 산이스라지, HB, KFS (2012); NIBR (2013)
 *216 *Prunus nudiflora* (Koehne) Koidz. 왕벚나무, JN (Haenam); JJ, Katsuki and Iketani (2016)
 217 *Prunus takesimensis* Nakai 섬벚나무, GB (Ulleungdo), KFS (2012); NIBR (2013)
 218 *Pyrus hakumensis* Nakai 백운배나무, JN (Baegunsan), NIBR (2013)
 *219 *Rubus coreanus* Miq. var. *concolor* Nakai ex J.Y. Yang 청북분자딸기, GN (Jirisan); JJ, Yang et al. (2016)
 220 *Rubus hongnoensis* Nakai 가시딸기, JJ, KFS (2012); NIBR (2013)
 221 *Rubus schizostylus* H. Lév. 가시북분자딸기, JN; GN; JJ, KFS (2012); NIBR (2013)
 222 *Rubus takesimensis* Nakai 섬나무딸기, GB (Ulleungdo), KFS (2012); NIBR (2013)
 223 *Rubus tozawae* Nakai ex J. Y. Yang 거제딸기, GN (Geojedo); JN (Geomundo), KFS (2012)
 224 *Sanguisorba argutidens* Nakai 구름오이풀, HB; HN; PB, NIBR (2013)
 225 *Spiraea chartacea* Nakai 떡조팝나무, JN (Hongdo; Daeheugsando), KFS (2012); NIBR (2013)
 226 *Spiraea insularis* (Nakai) H. Shin, Y. D. Kim & S. H. Oh 섬국수나무, GB (Ulleungdo), Shin et al. (2011); KFS (2012); NIBR (2013)
 227 *Spiraea microgyna* Nakai 좁조팝나무, northern to central provinces, NIBR (2013)
 228 *Spiraea pseudocrenata* Nakai 긴잎산조팝나무, HW, NIBR (2013)

*229 *Sorbus ulleungensis* Chin S. Chang 우산마가목, GB (Ulleungdo), Chang and Gil (2014)

Rubiaceae 쪽두서니과

230 *Asperula lasiantha* Nakai 갈퀴아재비, PN (Seongcheon); GN (Jirisan), KFS (2012); NIBR (2013)

231 *Galium koreanum* (Nakai) Nakai 참갈퀴덩굴, HW; CN; GB; GN; JB; JN; JJ, KFS (2012); NIBR (2013)

232 *Rubia argyi* H. Lév. & Vaniot var. *pubescens* (Nakai) M. Kim 우단쪽두서니, central to southern provinces, KFS (2012); NIBR (2013); Kim (2017b)

Salicaceae 버드나무과

233 *Populus ×tomentiglandulosa* T. B. Lee 은사시나무, GW; GG, KFS (2012); NIBR (2013)

234 *Salix bicarpa* Nakai 쌍실버들, HB; PB; PN, KFS (2012); NIBR (2013)

235 *Salix blinii* H. Lév. 제주산버들, JJ, KFS (2012); NIBR (2013)

236 *Salix chaenomeloides* Kimura var. *pilosa* (Nakai) Kimura 털왕버들, CB; GB; GN; JN, KFS (2012); NIBR (2013)

237 *Salix dependens* Nakai 개수양버들, HB; PB; GW; CB, KFS (2012); NIBR (2013)

238 *Salix hallaisanensis* H. Lév. 떡버들, all provinces, KFS (2012); NIBR (2013)

239 *Salix hallaisanensis* H. Lév. var. *longifolia* Nakai 긴잎떡버들, HB; HN; GW; GG; JN; JJ, NIBR (2013)

240 *Salix ishidoyana* Nakai 섬버들, GB (Ulleungdo), KFS (2012); NIBR (2013)

241 *Salix koriyanagi* Kimura ex Goerz 키버들, all provinces, KFS (2012)

Saxifragaceae 범의귀과

242 *Astilbe taquetii* (H. Lév.) Koidz. 한라노루오줌, JJ (Hallasan), KFS (2012); NIBR (2013)

*243 *Chrysosplenium aureobracteatum* Y. I. Kim & Y. D. Kim 연노랑팽이눈, GW, Kim and Kim (2015c)

244 *Chrysosplenium barbatum* Nakai 흰팽이눈, all provinces, NIBR (2013)

*245 *Chrysosplenium epigealum* J. W. Han & S. H. Kang 기눈팽이눈, GW, Han and Kang (2012)

246 *Chrysosplenium flaviflorum* Ohwi 누른팽이눈, HB, KFS (2012); NIBR (2013)

247 *Deutzia paniculata* Nakai 꼬리말발도리, HN, GB; GN, KFS (2012); NIBR (2013)

248 *Kirengeshoma koreana* Nakai 나도승마, JN; GN, KFS (2012); NIBR (2013)

249 *Micranthes octopetala* (Nakai) Y. I. Kim & Y. D. Kim 구실바위취, HB; HN; GG; GW; CB; JB, KFS (2012); NIBR (2013); Kim et al. (2015c)

250 *Saxifraga furumii* Nakai 범의귀, HB; HN; PB, KFS (2012); NIBR (2013)

Scrophulariaceae 현삼과

251 *Euphrasia coreana* W. Becker 갈끔좁쌀풀, JJ (Hallasan), KFS (2012); NIBR (2013)

252 *Euphrasia coreanalpina* Nakai ex Kimura 애기좁쌀풀, HB; HN; PB, KFS (2012); NIBR (2013)

253 *Euphrasia mucronulata* Nakai ex Kimura 산좁쌀풀, HN, KFS (2012); NIBR (2013)

254 *Euphrasia retrotricha* Nakai ex T. Yamaz. 털좁쌀풀, HN, KFS (2012); NIBR (2013)

*255 *Melampyrum koreanum* K.-J. Kim & S.-M. Yun 긴꽃머느리밥풀, GN (Somaemuldo), Kim and Yun (2012)

*256 *Melampyrum setaceum* (Maxim. ex Palib.) Nakai var. *nakaianum* (Tuyama) T. Yamaz. 새머느리밥풀, HB; PN; GW; GB, Yamazaki (1954)

257 *Paulownia coreana* Uyeki 오동나무, nearly all provinces (mainly planted); wild habitat unknown, KFS (2012); NIBR (2013)

258 *Pedicularis hallaisanensis* Hurus. 한라송이풀, JJ (Hallasan), KFS (2012); NIBR (2013)

259 *Pedicularis ishidoyana* Koidz. & Ohwi 애기송이풀, GG; GW; GB; GN, KFS (2012); NIBR (2013)

260 *Pedicularis lunaris* Nakai 칼송이풀, HB; HN, KFS (2012); NIBR (2013)

261 *Pedicularis nigrescens* Nakai 바위송이풀, HB; HN, KFS (2012); NIBR (2013)

262 *Pedicularis resupinata* L. var. *umbrosa* Kom. ex Nakai 그늘송이풀, HB; HN; GW; GB, KFS (2012); NIBR (2013)

263 *Scrophularia cephalantha* Nakai 몽울토현삼, GW; GB; GN, NIBR (2013)

264 *Scrophularia kakudensis* Franch. var. *microphylla* Nakai 좁현삼, JJ, NIBR (2013)

*265 *Scrophularia koraiensis* Nakai 토현삼, GG; GW; CB; GB, Jang (2016)

266 *Scrophularia takesimensis* Nakai 섬현삼, GB (Ulleungdo), KFS (2012); NIBR (2013)

267 *Veronica kiusiana* Furumi var. *diamantiaca* (Nakai) T. Yamaz. 봉래꼬리풀, GW (Geumgangsán; Seoraksán), KFS (2012); NIBR (2013)

268 *Veronica nakaiana* Ohwi 섬꼬리풀, GB (Ulleungdo), KFS (2012); NIBR (2013)

*269 *Veronica pusanensis* Y. Lee 부산꼬리풀, GN (Busan), Lee (2004)

270 *Veronica pyrethrina* Nakai 가새잎꼬리풀, GB, KFS (2012); NIBR (2013)

Theaceae 차나무과

271 *Stewartia koreana* Nakai ex Rehder 노각나무, PN; CB; GB; JN; GN, KFS (2012); NIBR (2013)

Thymelaeaceae 팔꽃나무과

*272 *Daphne jejuensis* M. Kim 제주백서향, JJ (Seonheul), Lee et al. (2013b)

Tiliaceae 피나무과

273 *Corchoropsis intermedia* Nakai 암까치깨, PB, KFS (2012); NIBR (2013)

274 *Tilia insularis* Nakai 섬피나무, GB (Ulleungdo), KFS (2012); NIBR (2013)

*275 *Tilia koreana* Nakai 연밭피나무, GW, Boo and Park (2016)

276 *Tilia semicostata* Nakai 개염주나무, PN, KFS (2012); NIBR (2013)

Ulmaceae 느릅나무과

277 *Celtis choseniana* Nakai 검팽나무, HW; GW; GB; JN, KFS (2012); NIBR (2013)

278 *Celtis edulis* Nakai 노랑팽나무, HB; GW, KFS (2012); NIBR (2013)

279 *Celtis taihyunchungii* M. Kim 장수팽나무, HW (Jangsusan), KFS (2012); NIBR (2013); Kim (2017b)

280 *Ulmus ×mesocarpa* M. Kim 중느릅나무, GW, KFS (2012); NIBR (2013); Kim (2017b)

Urticaceae 췌기풀과

281 *Boehmeria taquetii* Nakai 섬거북꼬리, JJ, KFS (2012); NIBR (2013)

282 *Pilea oligantha* Nakai 강계큰물통이, PB; HN; GW (Jeokgeunsan), KFS (2012); NIBR (2013)

283 *Pilea taquetii* Nakai 제주큰물통이, GN; JJ, KFS (2012); NIBR (2013)

284 *Urtica laetevirens* Maxim. var. *robusta* F. Maek. 섬췌기풀, GB (Ulleungdo); JN; JJ, KFS (2012); NIBR (2013)

Valerianaceae 마타리과

285 *Valeriana dageletiana* Nakai ex F. Maek. 넓은잎쥐오줌풀, GB (Ulleungdo), KFS (2012); NIBR (2013)

286 *Patrinia saniculifolia* Hemsl. 금마타리, HB; HN; PB; PN; HW; GW; GG; CB; GB; GN; JB, KFS (2012)

Violaceae 제비꽃과

287 *Viola kapsanensis* Nakai 갑산제비꽃, HN; GG (Gapyeong), KFS (2012); NIBR (2013)

288 *Viola seoulensis* Nakai 서울제비꽃, all provinces, KFS (2012); NIBR (2013)

*289 *Viola ulleungdoensis* M. Kim & J. Lee 울릉제비꽃, GB (Ulleungdo), Lee et al. (2012a)

290 *Viola woosanensis* Y. Lee & J. Kim 우산제비꽃, GB (Ulleungdo), KFS (2012)

Zosteraceae 거머리말과

291 *Zostera geojeensis* H. C. Shin, H. K. Choi & Y. S. Oh 좁마디거머리말, CN (Mongsanpo); GN (Daedapo), KFS (2012); NIBR (2013)

MONOCOTYLEDONEAE 단자엽식물강

Amaryllidaceae 수선화과

292 *Lycoris chejuensis* K. Tae & S. Ko 제주상사화, JJ, KFS (2012); NIBR (2013)

293 *Lycoris chinensis* Traub var. *sinuolata* K. Tae & S. Ko ex K. Tae & S. Ko 진노랑상사화, JB; JN, KFS (2012); NIBR (2013)

294 *Lycoris flavescens* M. Kim & S. Lee 붉노랑상사화, GG; CN; JB; JN; JJ, KFS (2012); NIBR (2013)

295 *Lycoris sanguinea* Maxim. var. *koreana* (Nakai) T. Koyama 백양꽃, JB; JN; GN, KFS (2012)

296 *Lycoris uydoensis* M. Kim 위도상사화, JB (Wido), KFS (2012); NIBR (2013)

Araceae 천남성과

297 *Arisaema takesimense* Nakai 섬남성, GB (Ulleungdo), KFS (2012); NIBR (2013)

298 *Arisaema thunbergii* Blume subsp. *geomundoense* S.C. Ko 거문천남성, JN (Geomundo); JJ (Hallasan), KFS (2012); NIBR (2013)

Commelinaceae 닭의장풀과

299 *Commelina minor* Y. Lee & Y.C. Oh 애기닭의장풀, GG (Yangpyeong), NIBR (2013)

Cyperaceae 사초과

300 *Carex erythrobasis* H. Lév. & Vaniot 한라사초, all provinces, KFS (2012); NIBR (2013)

301 *Carex humbertiana* Ohwi 큰뚝사초, HB, KFS (2012); NIBR (2013)

302 *Carex ochrochlamys* Ohwi 애기이삭사초, HB; HN, KFS (2012); NIBR (2013)

- 303 *Carex okamotoi* Ohwi 지리대사초, central to southern provinces, KFS (2012); NIBR (2013)
 304 *Carex phaeothrix* Ohwi 조이삭사초, HB, KFS (2012)
 305 *Carex pseudochinensis* H. Lév. & Vaniot 햇사초, PN; GG; GN, KFS (2012); NIBR (2013)
 306 *Carex sabyrensis* Less. ex Kunth var. *leiosperma* Ohwi 지리실청사초, GN; JB; JN, KFS (2012)
 *307 *Carex splendentissima* U. Kang & J. M. Chung 반들대사초, GW (Jeongseon; Pyeongchang); CB (Jecheon), Kang et al. (2012)
 308 *Carex subumbellata* Meinsh. var. *koreana* Ohwi 구름사초, HN, KFS (2012); NIBR (2013)
 *309 *Fimbristylis drizae* J. Kim & M. Kim 물하늘지기, JB (Jeongeup), Kim and Kim (2015a)
 *310 *Fimbristylis jindoensis* J. Kim & M. Kim 진도하늘지기, JN (Jindo), Kim and Kim (2015b)
 *311 *Neoscirpus dioicus* Y. Lee & Y. C. Oh 동강고랭이, GW (Jeongseon), Lee and Oh (2006)
 312 *Scleria mutoensis* Nakai 무등풀, JN (habitat unclear), KFS (2012); NIBR (2013)

Dioscoreaceae 마과

- *313 *Dioscorea coreana* (Prain & Burkill) R. Knuth 푸른마, all provinces, Kim et al. (2016a)

Eriocaulaceae 곡정초과

- 314 *Eriocaulon glaberrimum* Miyabe & Satake var. *platypetalum* (Satake) Satake 주검정곡정초, JJ; KFS (2012); NIBR (2013)
 315 *Eriocaulon sphagnicolum* Ohwi 애기곡정초, HB, KFS (2012); NIBR (2013)
 *316 *Eriocaulon tenuissimum* Nakai 가는개수염, GW (Jangjeon), Nakai (1917); Oh and Hur (2002)

Iridaceae 붓꽃과

- 317 *Iris koreana* Nakai 노랑붓꽃, JB; JN, KFS (2012); NIBR (2013)
 318 *Iris odaesanensis* Y. Lee 노랑무늬붓꽃, GW; CB; GB, NIBR (2013)
 319 *Iris rossii* Baker var. *latifolia* J. K. Sim & Y. S. Kim 넓은잎가시붓꽃, CN; JB; JN, KFS (2012); NIBR (2013)

Juncaceae 골풀과

- 320 *Luzula odaesanensis* Y. Lee & Y. Chae ex M. Kim 오대산새밥, GW, KFS (2012); NIBR (2013); Kim (2017b)

Liliaceae 백합과

- 321 *Allium koreanum* H. J. Choi & B. U. Oh 돌부추, JB; GB; GN, NIBR (2013)
 322 *Allium linearifolium* H. J. Choi & B. U. Oh 선부추, CB, NIBR (2013)
 323 *Allium minus* (S. Yu, W. Lee & S. Lee) H.J. Choi & B.U. Oh 줍부추, probably extinct in wild; cultivated mainly in GW and GG, NIBR (2013)
 324 *Allium taquetii* H. Lév. 한라부추, JJ (Hallasan), KFS (2012); NIBR (2013)
 325 *Allium thunbergii* G. Don. var. *deltoides* (S. Yu, S. Lee & W. Lee) H.J. Choi & B.U. Oh 세모산부추, GN (Gayasan), Choi and Oh (2003); NIBR (2013)
 326 *Allium thunbergii* G. Don var. *teretifolium* H. J. Choi & B. U. Oh 등근산부추, JB; JN, NIBR (2013)
 327 *Heloniopsis koreana* Fuse, N. S. Lee & M. N. Tamura 처녀치마, PN; HN; GG; GW; JN, KFS (2012)
 328 *Hemerocallis hakuensis* Nakai 백운산원추리, central to southern provinces, KFS (2012); NIBR (2013)
 329 *Hemerocallis hongdoensis* M. G. Chung & S. S. Kang 홍도원추리, JN (Hongdo; Gageodo; Heuksando), KFS (2012)
 330 *Hemerocallis taeanensis* S. S. Kang & M. G. Chung 태안원추리, CN (Taeon), KFS (2012); NIBR (2013)
 *331 *Heloniopsis tubiflora* Fuse, N. S. Lee & M. N. Tamura 숙은처녀치마, GW; JB; JN; GN, Fuse et al. (2004)
 *332 *Hosta clausa* Nakai var. *geumgangensis* M. Kim & H. Jo 금강비비추, JB (Jinan), Jo and Kim (2016)
 333 *Hosta jonesii* M. G. Chung 다도해비비추, GN; JN, KFS (2012); NIBR (2013)
 334 *Hosta minor* (Baker) Nakai 줍비비추, central and southern provinces, KFS (2012); NIBR (2013)
 335 *Hosta venusta* F. Maek. 한라비비추, JJ (Hallasan), KFS (2012); NIBR (2013)
 336 *Hosta yingeri* S. B. Jones 흑산도비비추, JN (Heuksando), KFS (2012); NIBR (2013)
 337 *Lilium hansonii* Leichtlin ex D. D. T. Moore 섬말나리, GB (Ulleungdo), KFS (2012); NIBR (2013)
 338 *Polygonatum grandicaule* Y. S. Kim, B. U. Oh & C.G. Jang 선동굴레, CB (Gakhosan; Minjujisan), KFS (2012); NIBR (2013)
 339 *Polygonatum infundiflorum* Y. S. Kim, B. U. Oh & C. G. Jang 늦동굴레, GG (Pungdo), KFS (2012); NIBR (2013)
 340 *Smilacina bicolor* Nakai 자주솜대, HB; HN; GW; CB; JB, KFS (2012); NIBR (2013)
 *341 *Tofieldia yoshiiiana* Makino var. *koreana* (Ohwi) M. N. Tamura, Fuse & N.S. Lee 꽃장포, GW (Wonsan), Tamura et al. (2013)

Orchidaceae 난초과

- 342 *Goodyera ×tamnaensis* N. S. Lee, K. S. Lee, S. H. Yeau & C. S. Lee 탐라사철란, JJ (Seogwipo), KFS (2012)

- 343 *Habenaria chejuensis* Y. Lee & K. S. Lee 제주방울란, JJ (Daejeong), NIBR (2013)
 344 *Habenaria cruciformis* Ohwi 개참자리난초, GW; GG; GN, KFS (2012); NIBR (2013)
 345 *Liparis koreana* (Nakai) Nakai 참나리난초, HB; HN; PB; GW; GG; JB, KFS (2012); NIBR (2013)
 346 *Liparis pterosepala* N. S. Lee, C. S. Lee & K. S. Lee 날개옥잠화, JJ, KFS (2012)
 347 *Liparis yongnoana* N. S. Lee, C. S. Lee & K. S. Lee 계우옥잠화, JJ, KFS (2012)
 348 *Oreorchis coreana* Finet 두잎감자난초, JJ, KFS (2012); NIBR (2013)

Poaceae 벼과

- 349 *Arundinaria munsuensis* Y. Lee 문수조릿대, JN (Jirisan), KFS (2012); NIBR (2013)
 350 *Calamagrostis paishanensis* Nakai 백산새풀, northern provinces, KFS (2012); NIBR (2013)
 351 *Calamagrostis subacrochaeta* Nakai 낭림새풀, PB (Nangnimsan), KFS (2012); NIBR (2013)
 352 *Festuca ovina* L. var. *chosenica* Ohwi 수염김의털, HB; GN (Jirisan), KFS (2012); NIBR (2013)
 353 *Festuca ovina* L. var. *koreanoalpina* Ohwi 두메김의털, HB; HN; PB; GW; GN; JJ, KFS (2012); NIBR (2013)
 354 *Miscanthus changii* Y. Lee 장억새, GW; GG, KFS (2012); NIBR (2013)
 355 *Poa deschampsiioides* Ohwi 좁새포아풀, HB; HN, KFS (2012); NIBR (2013)
 356 *Poa kumgangsani* Ohwi 금강포아풀, GE (Geumgansan), KFS (2012); NIBR (2013)
 357 *Poa takeshimana* Honda 섬포아풀, GB (Ulleungdo), KFS (2012); NIBR (2013)
 358 *Poa ullungdoensis* I. C. Chung 울릉포아풀, GB (Ulleungdo), KFS (2012); NIBR (2013)
 359 *Sasa coreana* Nakai 고려조릿대, HB, KFS (2012); NIBR (2013)
 360 *Sasa quelpaertensis* Nakai 제주조릿대, JJ, KFS (2012); NIBR (2013)

Appendix 2. List of excluded taxa from KFS (2012) and NIBR (2013).

The information is listed as follow; scientific and vernacular names, reference and note.

PTERIDOPHYTES 양치식물문

Apleniaceae 꼬리고사리과

- 1 *Asplenium sarelii* Hook. var. *anogrammoides* (Christ) Tagawa 바위좁고사리, KFS (2012), synonym of *A. anogrammoides* Christ (Lin and Viane, 2013)

Athyriaceae 개고사리과

- 2 *Athyrium nakaii* Tagawa 강원고사리, KFS (2012), synonym of *Dryopteris goeringiana* (Kuntze) Koidzumi (Kim et al., 2015a)

Dryopteridaceae 관중과

- 3 *Dryopteris austriaca* (Jacq.) Woy. ex Schinz & Thell. var. *subopposita* H. Ito 금강고사리, KFS (2012), unable to check validly published description or diagnosis

Thelypteridaceae 처녀고사리과

- 4 *Phegopteris koreana* B. Y. Sun & C. H. Kim 큰설설고사리, KFS (2012), distributed in Japan (Kim et al., 2015b)

Woodsiaceae 우드풀과

- 5 *Woodsia pseudoilvensis* Tagawa 메가물고사리, KFS (2012), synonym of *W. subcordata* Turcz. (Kim and Sun, 2015)

- 6 *Woodsia saitoana* Tagawa 좁쌀우드풀, KFS (2012), synonym of *W. subcordata* Turcz. (Kim and Sun, 2015)

ANGIOSPERMAE 피자식물문

DICOTYLEDONEAE 쌍자엽식물강

Actinidiaceae 다래나무과

- 7 *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. var. *rufinervis* Nakai 녹다래나무, NIBR (2013), synonym of *A. arguta* (Siebold & Zucc.) Planch. ex Miq. (Kim and Oh, 2013)

Apiaceae 산형과

- 8 *Angelica cartilaginomarginata* (Makino ex Y. Yabe) Nakai var. *distans* (Nakai) Kitag. 흰바디나물, NIBR (2013), synonym of *A. cartilaginomarginata* (Makino ex Y. Yabe) Nakai (Yoon, 1994)

- 9 *Angelica polymorpha* Maxim. var. *fallax* (Boiss.) Kitag. 개강활, NIBR (2013), synonym of *A. polymorpha* Maxim. (Yoon, 1994)

- 10 *Coelopleurum nakaianum* (Kitag.) Kitag. 부전바디, NIBR (2013), distributed in China (Lee, 1996)

- 11 *Tilingia nakaiana* Kitag. 속리참나물, KFS (2012); NIBR (2013), synonym of *T. tsusimensis* (Y. Yabe) Kitag. (Kim et al., 2007)

Aristolochiaceae 쥐방울덩굴과

- 12 *Asarum misandrum* B. U. Oh & J. G. Kim 각시족도리풀, KFS (2012); NIBR (2013), distributed in Japan (Oh, 2008)

- 13 *Asarum yeonbyeonense* M. Kim & S. So 연변족도리풀, KFS (2012), distributed in China (So et al, 2010)

Asteraceae 국화과

- 14 *Achillea ptarmica* L. var. *acuminata* (Ledeb.) Heimerl 큰톱풀, KFS (2012); NIBR (2013), synonym of *A. acuminata* (Ledeb.) Sch.-Bip. (Afanasiev and Botschantzev, 1961)

- 15 *Artemisia japonica* Thunb. var. *angustissima* (Nakai) Kitam. 실체비쭈, NIBR (2013), synonym of *A. angustissima* Naka (Park, 2012)

- 16 *Aster chezuensis* (Kitam.) Nakai 제주국화, KFS (2012); NIBR (2013), synonym of *A. hispidus* Thunb. (Kim, 2017a)

- 17 *Cirsium vlassovianum* Fisch. ex DC. var. *album* Nakai 민흰잎영경귀, NIBR (2013), possible synonym of *C. vlassovianum* Fisch. ex DC. (Im, 1999)

- 18 *Hieracium coreanum* Nakai 깔깔이풀, KFS (2012), distributed in China [= *Crepis coreana* (Nakai) H.S. Pak] (Zhu and Kilian, 2011)

- 19 *Leontopodium seorakensis* Y. S. Lim, J. O. Hyun, Y. D. Kim & H. Shin 설악솜다리, NIBR (2013), synonym of *L. leiolepis* Nakai (Lee et al., 2016)

- 20 *Parasenecio koraiensis* (Nakai) B. U. Oh 참나래박쥐, KFS (2012), invalidly published name [*Cacalia koraiensis* Nakai (1952) is nom. nud.]

- 21 *Saussurea maximowiczii* Herder var. *triceps* (H. Lév. & Vaniot) Kitam. 한라분취, KFS (2012); NIBR (2013), synonym of *S. maximowiczii* Herder (Hassler, 2017)

- 22 *Saussurea triangulata* Trautv. & C. A. Mey. var. *pinnatifida* (Nakai) Kitam. 깃뚝불취, NIBR (2013), synonym of *S. manshurica* Kom. (Hassler, 2017)
- 23 *Senecio birubonensis* Kitam. 금강솜방망이, KFS (2012); NIBR (2013), synonym of *Tephroses phaeantha* (Nakai) C. Jeffrey & Y.L. Chen (Jeffrey and Chen, 1984)
- 24 *Senecio koreanus* Kom. 국화방망이, KFS (2012), distributed in China [= *Tephroses koreana* (Kom.) B. Nord. & Pelser] (Nordenstam and Pelser, 2011)

Balsaminaceae 봉선화과

- 25 *Impatiens violascens* B. U. Oh and Y. Y. Kim 꼬마물봉선, GB (Bohyeonsan), KFS (2012), later homonym of *I. violacea* M. Kumar & Sequiera (2001) (Park et al., 2013a)

Betulaceae 자작나무과

- 26 *Betula ermanii* Cham. var. *saitoana* (Nakai) Hatusima 좁고채목, KFS (2012), synonym of *B. ermanii* Cham. (Govaerts and Bopp, 2017)

Brassicaceae 십자화과

- 27 *Arabis ligulifolia* Nakai 주걱장대, NIBR (2013), synonym of *A. pendula* L. (Iwatsuki et al., 2006)
- 28 *Arabis serrata* Franch. & Sav. var. *hallaisanensis* (Nakai) Ohwi 바위장대, NIBR (2013), possible synonym of *A. serrata* Franch. & Sav. (Oh, 2007a)
- 29 *Cardamine glechomifolia* H. Lévl. 벌깨냉이, KFS (2012); NIBR (2013), distributed in China and Japan (= *C. anhuiensis* D.C. Zhang & C.Z. Shao in China; = *C. arakiana* Koidz. in Japan) (Kim, 2015c)
- 30 *Cardamine koreana* (Nakai) Nakai 참고추냉이, NIBR (2013), synonym of *C. leucantha* (Tausch) O.E. Schulz (Song and Park, 2012)
- 31 *Cardamine pseudowasabi* H. Shin & Y. D. Kim 고추냉이, KFS (2012), possible synonym of *Eutrema japonicum* (Miq.) Koidz. (Y. Y. Kim, pers. comm.)

Campanulaceae 초롱꽃과

- 32 *Adenophora obovata* Kitam. 관악잔대, KFS (2012); NIBR (2013), synonym of *A. polyantha* Nakai (Yoo, 1995)
- 33 *Adenophora pulchra* Kitam. 금강잔대, KFS (2012); NIBR (2013), synonym of *A. triphylla* (Thunb.) A. DC. (Govaerts, 1995)

Caprifoliaceae 인동과

- 34 *Lonicera tatarinowii* Maxim. var. *leptantha* (Rehder) Nakai 흰괴불나무, KFS (2012); NIBR (2013), synonym of *L. tatarinowii* Maxim. (Lee, 1996)
- 35 *Zabelia mosanensis* Hisauti & H. Hara 땡강나무, NIBR (2013), synonym of *Z. biflora* (Turcz.) Makino (Kim, 1998)

Caryophyllaceae 석죽과

- 36 *Pseudostellaria bulbosa* (Nakai) Ohwi 덩이뿌리개별꽃, KFS (2012), synonym of *P. heterophylla* (Miq.) Pax (Hassler, 2017); possible synonym of *P. davidii* (Franch.) Pax (K. Choi, pers. comm.)

Celastraceae 노박덩굴과

- 37 *Buxus koreana* (Nakai ex Rehder) T. H. Chung, P. S. Toh, D. B. Lee & F. J. Lee. 회양목, KFS (2012), distributed in China (Kim, 2015a)
- 38 *Euonymus alatus* (Thunb.) Siebold var. *uncinatus* Nakai 삼방회잎나무, KFS (2012), synonym of *E. alatus* (Thunb.) Siebold f. *apterus* (Regel) Rehder (Kim, 1993)

Crassulaceae 돌나물과

- 39 *Orostachys filifera* (Nakai) Nakai 애기마위술, NIBR (2013), synonym of *O. spinosa* (L.) C. A. Meyer ex A. Berger (Ohba, 2003a)
- 40 *Rhodiola angusta* Nakai 좁은잎돌꽃, KFS (2012), distributed in China (= *R. ramosa* Nakai) (Ohba, 2003b)
- 41 *Sedum aizoon* L. var. *ramosum* Uyeki & Sakata 가지기린초, NIBR (2013), synonym of *S. aizoon* L. (Hart and Bleij, 2003)
- 42 *Sedum zokuriense* Nakai 속리기린초, KFS (2012); NIBR (2013), possible synonym of *S. kamtschaticum* Fisch. (Lee et al., 2003)

Ericaceae 진달래과

- 43 *Rhododendron saisiuense* Nakai 한라산참꽃, KFS (2012), synonym of *R. kiusianum* Makino (Yamazaki, 1996)
- 44 *Vaccinium hirtum* Thunb. var. *koreanum* (Nakai) Kitam. 산앵도나무, KFS (2012); NIBR (2013), distributed in China (Fang and Stevens, 2005)

Euphorbiaceae 대극과

- 45 *Euphorbia octoradiata* H. Lévl. & Vaniot 제주대극, NIBR (2013), synonym of *E. esula* L. (Park, 2015)
- 46 *Euphorbia pekinensis* Rupr. var. *subulatifolius* (Hurus.) T. B. Lee 목포대극, KFS (2012); NIBR (2013), synonym of *E. lasiocaula* Boiss. (Park, 2015)

Fabaceae 콩과

- 47 *Astragalus koraiensis* Y. Lee 정선허기, NIBR (2013), synonym of *A. sikokianus* Nakai (Choi et al., 2015)
- 48 *Lespedeza bicolor* Turcz. var. *sericea* Nakai 털싸리, NIBR (2013), synonym of *L. bicolor* Turcz. (Akiyama, 1988)
- 49 *Lespedeza maximowiczii* C. K. Schneid. var. *tomentella* (Nakai) Nakai 털조록싸리, NIBR (2013), synonym of *L. maximowiczii* C. K. Schneid. (Akiyama, 1988)
- 50 *Lespedeza pilosa* (Thunb.) Siebold & Zucc var. *pedunculata* T.B. Lee 긴팽이싸리, NIBR (2013), possible synonym of *L. pilosa* (Thunb.) Siebold & Zucc. (B.H. Choi, pers. comm.)
- 51 *Lespedeza robusta* Nakai 고양싸리, NIBR (2013), synonym of *L. formosa* (Vogel) Koehne (Hatusima, 1967)
- 52 *Oxytropis strobilacea* Bunge 시루산뚝부, KFS (2012), distributed in Russia (Kholina et al., 2016)
- 53 *Vicia angustipinnata* Nakai 가는갈퀴나물, NIBR (2013), synonym of *V. hirticalycina* Nakai (Choi and Kwon, 2001)
- 54 *Vicia linearifolia* Y. Lee 계방나비나물, KFS (2012); NIBR (2013), later homonym of *V. linearifolia* Hook. & Arn. (1830) (Park et al., 2013a)

Fagaceae 참나무과

- 55 *Quercus dentata* Thunb. var. *fallax* Nakai 청떡갈나무, NIBR (2013), synonym of *Q. dentata* Thunb. (Govaerts, 2004)
- 56 *Quercus glauca* Thunb. var. *nudata* Blume 흰민중가시, KFS (2012), possible synonym of *Q. glauca* Thunb. (Lee, 2012)
- 57 *Quercus stenophylla* (Blume) Makino var. *latifolia* Nakai 넓은잎참가시나무, NIBR (2013), possible synonym of *Q. salicina* Blume f. *latifolia* (Nakai) W. Lee (Lee, 1996)

Geraniaceae 쥐손이풀과

- 58 *Geranium eriostemon* Fisch. ex DC. var. *glabrescens* Nakai ex H. Hara 부전쥐손이, NIBR (2013), synonym of *G. platyanthum* Duthie (Xu and Aedo, 2008)
- 59 *Geranium koraiense* Nakai 참이질풀, KFS (2012), later homonym of *G. koreanum* Kom. (1901)
- 60 *Geranium koreanum* Kom. 둥근이질풀, NIBR (2013), distributed in China (Xu and Aedo, 2008)

Juglandaceae 가래나무과

- 61 *Platycarya strobilacea* Siebold et Zucc. var. *coreana* Miq. 털꿀피나무, NIBR (2013), synonym of *P. strobilacea* Siebold et Zucc. f. *coreana* (Miq.) W. T. Lee (Lee, 1996)

Lamiaceae 꿀풀과

- 62 *Mentha arvensis* L. var. *barbata* (Nakai) W. Lee 털박하, KFS (2012); NIBR (2013), synonym of *M. canadensis* L. (Tucker and Naczi, 2007)
- 63 *Scutellaria indica* L. var. *alba* S. Kim & S. Lee 비바리골무꽃, KFS (2012); NIBR (2013), synonym of *S. indica* L. (Govaerts, 2003)

Loganiaceae 마전과

- 64 *Gardneria insularis* Nakai 영주치자, KFS (2012), synonym of *G. nutans* Siebold & Zucc. (Leenhouts, 1962)

Oleaceae 물푸레나무과

- 65 *Forsythia saxatilis* (Nakai) Nakai 산개나리, KFS (2012); NIBR (2013), synonym of *F. ovata* Nakai (Chung et al., 2013; De Juana Clavero, 2016)
- 66 *Fraxinus quadrijuga* Nakai 백운쇠물푸레, NIBR (2013), possible synonym of *F. sieboldiana* Blume (Chang et al., 2011)
- 67 *Ligustrum acutissimum* Koehne 산동취뚝나무, KFS (2012), synonym *L. leucanthum* (S. Moore) P.S. Green (Green, 1995; De Juana, 2009)
- 68 *Syringa fauriei* H. Lévl. 버들개회나무, KFS (2012), synonym of *S. reticulata* (Blume) H. Hara subsp. *amurensis* (Rupr.) P.S. Green & M.C. Chang (Chen, 2008)
- 69 *Syringa patula* (Palib.) Nakai var. *venosa* (Nakai) M. Kim 섬개회나무, KFS (2012); NIBR (2013), synonym of *S. pubescens* Turcz. subsp. *patula* (Palib.) M. C. Chang & X. L. Chen (Chen et al., 2009)
- 70 *Syringa wolfii* C. K. Schneid. var. *hirsuta* (C. K. Schneid) Rehder 털꽃개회나무, NIBR (2013), synonym of *S. villosa* subsp. *wolfii* (C. K. Schneid.) Jin Y. Chen & D.Y. Hong (Chen, 2008)

Ranunculaceae 미나리아재비과

- 71 *Clematis flabellata* Nakai 요강나물, KFS (2012); NIBR (2013), synonym of *C. fusca* Turcz. (Hassler, 2017)
- 72 *Clematis mandshurica* Rupr. var. *koreana* (Nakai) Nakai ex Mori 큰위령선, NIBR (2013), possible synonym of *C. terniflora* DC. var. *mandshurica* (Rupr.) Ohwi (NIBR, 2013)

73 *Thalictrum rochebrunnianum* Franch. & Sav. var. *grandisepalum* (H. Lév.) Nakai 금평의다리, NIBR (2013), synonym of *T. rochebrunnianum* Franch. & Sav. (Iwatsuki et al., 2006)

74 *Thalictrum uchiyamai* Nakai 자주평의다리, NIBR (2013), distributed in Japan (Iwatsuki et al., 2006)

Rosaceae 장미과

75 *Potentilla dickinsii* Franch. et Sav. var. *brevisetata* Nakai 참양지꽃, NIBR (2013), synonym of *P. dickinsii* Franch. et Sav. (Iwatsuki et al., 2001)

76 *Potentilla dickinsii* Franch. et Sav. var. *glabrata* Nakai 섬양지꽃, KFS (2012); NIBR (2013), synonym of *P. dickinsii* Franch. et Sav. (Iwatsuki et al., 2001)

77 *Pourthiaea villosa* (Thunb.) Decne. var. *brunnea* (H. Lév.) Nakai 떡잎윤노리나무, KFS (2012); NIBR (2013), synonym of *P. villosa* (Thunb.) Decne. (Liu and Hong, 2016)

78 *Rosa kokusanensis* Nakai 흑산가시, KFS (2012); NIBR (2013), synonym of *R. luciae* Franch. & Rochebr. (Chang et al., 2011; Hassler, 2017)

79 *Rosa maximowicziana* Regel var. *pilosa* (Nakai) Nakai 털용가시, KFS (2012); NIBR (2013), synonym of *R. maximowicziana* Regel (Hassler, 2017)

80 *Rubus parvifolius* L. var. *taquetii* (H. Lév.) Lauener & D.K. Ferguson 사슴딸기, NIBR (2013), synonym of *R. parvifolius* L. (Iwatsuki et al., 2001)

81 *Rubus tozawae* Nakai ex J.Y. Yang var. *longisepalus* J.Y. Yang 맥도딸기, KFS (2012), possible synonym of *R. ribisoideus* Matsum. (Yang et al., 2012)

82 *Sanguisorba hakusanensis* Makino var. *coreana* H. Hara 산오이풀, NIBR (2013), synonym of *S. hakusanensis* Makino (Lee et al., 2000)

83 *Sorbus amurensis* Koehne var. *latifoliolata* Nakai 넓은잎당마가목, NIBR (2013), synonym of *S. commixta* Hedl. (Park et al., 2013b)

84 *Sorbus amurensis* Koehne var. *rufa* Nakai 차빛당마가목, KFS (2012), synonym of *S. commixta* Hedl. (Park et al., 2013b)

85 *Sorbus commixta* Hedl. var. *pilosa* Nakai 잔털마가목, NIBR (2013), synonym of *S. commixta* Hedl. (Park et al., 2013b)

Rubiaceae 꼭두서니과

86 *Galium boreale* L. var. *koreanum* Nakai 털긴잎갈퀴, KFS (2012); NIBR (2013), synonym of *G. boreale* L. (Govaerts, 2003)

Rutaceae 운향과

87 *Zanthoxylum coreanum* Nakai 왕초피, KFS (2012), synonym of *Z. simulans* Hance (Murata, 1984)

Salicaceae 버드나무과

88 *Populus glandulosa* (Uyeki) Uyeki 수원사시나무, KFS (2012); NIBR (2013), later homonym of *P. glandulosa* Moench (1794)

89 *Salix floderusii* Nakai var. *fuscescens* Nakai 백산버들, KFS (2012); NIBR (2013), synonym of *S. xerophila* f. *fuscescens* (Nakai) W. G. Park (Park, 2007)

90 *Salix pseudolasiogyne* H. Lév 능수버들, KFS (2012), distributed in China (Fang et al., 1999)

91 *Salix sericeocinerea* Nakai 큰산버들, KFS (2012), distributed in Japan (Park, 2007)

Saxifragaceae 범의귀과

92 *Astilbe rubra* Hook.f. & Thomson var. *divaricata* (Nakai) W. T. Lee 진퍼리노루오줌, KFS (2012); NIBR (2013), synonym of *A. koreana* (Kom.) Nakai (Han, 2016)

93 *Chrysosplenium hallaisanense* Nakai 제주괘이눈, NIBR (2013), synonym of *C. barbatum* Nakai (Kim, 2015b)

94 *Mukdenia rossii* (Oliv.) Koidz. var. *multiloba* (Nakai) Nakai 큰돌단풍, NIBR (2013), synonym of *M. rossii* (Oliv.) Koidz. (Lee, 1996)

95 *Philadelphus koreanus* Nakai 양덕고광나무, KFS (2012); NIBR (2013), synonym of *P. tenuifolius* Rupr. (Park et al., 2005)

96 *Philadelphus scaber* Nakai 섬고광나무, KFS (2012); NIBR (2013), synonym of *P. tenuifolius* Rupr. (Park et al., 2005)

97 *Philadelphus seoulensis* Y. H. Chung & H. C. Shin 서울고광나무, KFS (2012); NIBR (2013), synonym of *P. tenuifolius* Rupr. (Park et al., 2005)

98 *Saxifraga fortunei* Hook. var. *pilosissima* Nakai 털바위떡풀, KFS (2012), synonym of *S. fortunei* Hook. var. *aplina* (Matsum. et Nakai) Nakai (Iwatsuki et al., 2001)

Scrophulariaceae 현삼과

99 *Pedicularis mandshurica* Maxim. var. *coreana* (Bonati) Hurus. 털만주송이풀, NIBR (2013), synonym of *P. mandshurica* Maxim. (Hassler, 2017)

100 *Pseudolysimachion kiusianum* (Furumi) T. Yamaz. var. *glabrifolium* (Kitag.) T. Yamaz. 큰산꼬리풀, KFS (2012), synonym of *P. kiusianum* (Furumi) T. Yamaz. (Hong et al., 1998)

101 *Scrophularia buergeriana* Miq. var. *quelpartensis* T. Yamaz. 제주현삼, KFS (2012); NIBR (2013), synonym of *S. kakudensis* Franch. var. *microphylla* Nakai (Jang, 2016)

Solanaceae 가지과

102 *Scopolia lutescens* Y. Lee 노랑미치광이풀, KFS (2012); NIBR (2013), synonym of *S. japonica* Maxim. (Jang et al., 2011)

Tiliaceae 피나무과

103 *Tilia ovalis* Nakai 옹기피나무, NIBR (2013), distributed in China (Tang et al., 2007)

Trapaceae 마름과

104 *Trapa bicornis* Osbeck 유전마름, KFS (2012), distributed in China (Na and Oh, 2015)

Urticaceae 쐬기풀과

105 *Boehmeria hirtella* Satake 털긴잎모시풀, NIBR (2013), synonym of *B. sieboldiana* Blume (Wilmot-Dear and Friis, 2013)

106 *Boehmeria nakaiana* Satake 제주긴잎모시풀, NIBR (2013), synonym of *B. sieboldiana* Blume (Wilmot-Dear and Friis, 2013)

107 *Boehmeria quelpaertensis* Satake 제주모시풀, KFS (2012); NIBR (2013), distributed in Japan (Yahara, 1983)

Violaceae 제비꽃과

108 *Viola kapsanensis* Nakai var. *albiflora* (Nakai) Nakai 흰갑산제비꽃, NIBR (2013), synonym of *V. japonica* Langsd. ex Ging (Hassler, 2017); possible synonym of *V. kapsanensis* Nakai (K.O. Yoo, pers. comm.)

109 *Viola takesimana* Nakai 섬제비꽃, KFS (2012); NIBR (2013), synonym of *V. acuminata* Ledeb. (Hassler, 2017); possible synonym of *V. grypocera* A. Gary (K.O. Yoo, pers. comm.)

MONOCOTYLEDONEAE 단자엽식물강

Araceae 천남성과

110 *Pinellia koreana* K. H. Tae & J. H. Kim 지리반하, KFS (2012), synonym of *P. ternata* (Thunb.) Makino (Zhu et al., 2007)

Cyperaceae 사초과

111 *Carex aphanolepis* Franch. & Sav. var. *mixta* Nakai 잡골사초, KFS (2012), invalidly published name (nomen nudum)

112 *Carex blepharicarpa* Franch. var. *insularis* Nakai 여우꼬리사초, NIBR (2013), synonym of *C. blepharicarpa* Franch. (Govaerts and Simpson, 2007)

113 *Carex tenuiformis* H. Lév. & Vaniot var. *neofilipes* (Nakai) Ohwi ex Hatusima, 그늘실사초, KFS (2012), distributed in China, Japan and Russia (Oh, 2007c)

Eriocaulaceae 곡정초과

114 *Eriocaulon latipetalum* Y. C. Oh & C. S. Heo 넓은꽃잎개수염, KFS (2012), invalidly published name (nomen nudum)

Iridaceae 붓꽃과

115 *Iris sanguinea* Donn ex Hornem. var. *violacea* Makino 진보라붓꽃, KFS (2012), possible synonym of *I. sanguinea* (J.-K. Sim, pers. comm.)

Juncaceae 꿀풀과

116 *Luzula rufescens* Fisch. ex E. Mey. 세밥, NIBR (2013), distributed in Russia, Mongolia, China, Japan and North America (Wu and Clemants, 2000)

Liliaceae 백합과

117 *Allium deltoidefistulosum* S. Yu, S. Lee & W. Lee 세모부추, NIBR (2013), synonym of *A. sacculiferum* Maxim. (Choi and Oh, 2011)

118 *Allium taquetii* H. Lév. var. *deltoides* (S. Yu, S. Lee & W. Lee) H. J. Choi & B. U. Oh 한라세모부추, NIBR (2013), Scientific name error of *A. thunbergii* G. Don var. *deltoides* (S. O. Yu, S. T. Lee & W. T. Lee) H.J. Choi & B. U. Oh (Choi and Oh, 2003)

119 *Lilium amabile* Palib. 털중나리, NIBR (2013), distributed in China (Rong et al., 2011)

120 *Lilium tenuifolium* Fisch. var. *chrysanthum* Nakai 금나리, NIBR (2013), synonym of *L. pumilum* Delile (Govaerts, 2011)

121 *Polygonatum odoratum* (Mill.) Druce var. *quelpaertense* H. Hara 제주둥굴레, KFS (2012); NIBR (2013), synonym of *P. odoratum* (Mill.) Druce var. *pluriflorum* (Miq.) Ohwi (Jang, 1998)

122 *Polygonatum stenanthum* Nakai 좁은둥굴레, NIBR (2013), synonym of *P. falcatum* A. Gray (Tamura, 2008)

123 *Veratrum oxysepalum* Turcz. 푸른박새, NIBR (2013), distributed in China, Japan, and Russia (Kikuchi et al., 2010; Kim et al., 2014)

Orchidaceae 난초과

124 *Calanthe coreana* Nakai 섬새우난초, KFS (2012); NIBR (2013), synonym of *C. discolor* Lindl (Lee, 2011)

125 *Neottia hypocastanoptica* Y. Lee 한라새둥지란, NIBR (2013), synonym of *N. kiusiana* T. Hashim. & S. Hatus. (Lee, 2011)

Poaceae 벼과

126 *Asperella coreana* (Honda) Nevski 고려개보리, KFS (2012), distributed in China and Russia (Lee, 2007)

127 *Calamagrostis hymenoglossa* Ohwi 북선메뚜기피, KFS (2012); NIBR (2013), synonym of *C. monticola* V. Petrov ex Kom. (Tzvelev and Probatova, 2012)

128 *Miscanthus oligostachyus* Stapf subsp. *intermedius* (Honda) T. Koyama 역새아재비, KFS (2012), synonym of *M. oligostachyus* Stapf (Clayton et al., 2006)

129 *Poa kanboensis* Ohwi 관모포아풀, KFS (2012); NIBR (2013), distributed in China [= *P. urssulensis* Trin. var. *kanboensis* (Ohwi) Olonova & G. Zhu] (Zhu et al., 2006)

130 *Pseudosasa japonica* (Steud.) Makino var. *purpurascens* Nakai 자주이대, NIBR (2013), synonym of *P. japonica* (Steud.) Makino (Ohnberger, 1999)

131 *Puccinellia coreensis* Hack. ex Honda 갯겨이삭, KFS (2012); NIBR (2013), distributed in China (Liu et al., 2006)

132 *Sasa chiisanensis* (Nakai) Y. Lee 갯대, KFS (2012); NIBR (2013), synonym of *S. borealis* (Hack.) Makino & Shibata (Ohnberger, 1999)