

# Rhododendron diversity conservation in global botanic gardens: a case study of *Maddenia* species

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## SUPPLEMENTARY TABLE 1 *Ex situ* living collections of *Rhododendron* subsection *Maddenia* in global botanic gardens

Data describing the presence of ss. *Maddenia* taxa in cultivation were collected from three key sources. Firstly, BGCI PlantSearch database (BGCI, 2021) was used as the primary indicator of presence in cultivation. However, PlantSearch only records *ex situ* collections at taxon level but not accession level. An unpublished set of BGCI data (BGCI, 2020), which contained details of the accessions held at individual botanic gardens, was therefore used as the second source. BGCI data were used, compiled and published under the BGCI Data Sharing Agreement (signed between Marion MacKay and the BGCI representative Abby Meyer on 10 July 2020).

The third source of data were seven gardens in New Zealand as a hotspot of *ex situ* conservation of ss. *Maddenia*, together with seven of the largest collections of ss. *Maddenia* outside New Zealand (Table 3). Sites in New Zealand are Pukeiti garden (Taranaki region) (BGCI member), Dunedin Botanic Garden (BGCI member), Tannock Glen and one private garden (Dunedin), Heritage Park, Cross Hills Gardens and one private garden (Manawatū region). Sites outside New Zealand are: Rhododendron Species Botanical Garden (RSBG, USA), Royal Botanic Garden Edinburgh (RBGE, UK; including RBGE at Edinburgh, Logan and Benmore), Royal Botanic Garden Kew (UK; including RBGK at Kew and Wakehurst), the Dandenong Ranges Botanic Garden (previously National Rhododendron Garden or Olinda Garden of Parks Victoria, Australia), Arboretum Wespelaar (Belgium), University of British Columbia Botanical Garden (UBCBG, Canada) and the Arnold Arboretum of Harvard University (USA). Data include an unpublished dataset from an earlier survey by MacKay et al. (2018), together with additional data or individual garden updates in 2020. The use of collections data and permission of publishing compiled dataset were approved by the source botanic gardens.

Based on current presence of ss. *Maddenia* taxa, numbers of living collections at each *ex situ* site and per taxon were counted. Taxa were defined as ‘in cultivation’ if there was a record in any one of the data sources used, while taxa with no record in any of the data sources used were considered ‘not in cultivation’. The exception was the newly published species *R. kuomeianum* (Chang et al., 2021) that is in cultivation at Rhododendron Species Botanic Garden, with one accession collected from the wild (Hootman, 2021 & personal communication). For the new species *R. starlingii*, wild accessions were reported earlier under its ally *R. crenulatum* (Rushforth et al., 2022), thus listed separately in the present dataset (Supplementary Table 2; Supplementary Material 3). For other taxa, wild accessions of the synonyms were listed under the corresponding allied species. For example, accessions identified as *R. cubittii* were listed under *R. veitchianum*.

This table lists the 592 records of subsection *Maddenia* in the 73 *ex situ* sites (botanic gardens)

globally. The number of records identifies the number of taxa per site; however, one taxon may have more than one record with different plant codes in the source databases, which usually arises from collections of synonyms, varieties or botanical cultivars.

Botanic garden codes in the table column ‘BG code’ are assigned by the authors. Each code anonymously corresponds to a botanic garden in BGCI’s internal database.

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_01	Australia	<i>R. burmanicum</i>			LC
RhodoBG_01	Australia	<i>R. carneum</i>			NE
RhodoBG_01	Australia	<i>R. ciliatum</i>			LC
RhodoBG_01	Australia	<i>R. ciliicalyx</i>			LC
RhodoBG_01	Australia	<i>R. ciliicalyx</i>		Charisma	LC
RhodoBG_01	Australia	<i>R. crassum</i>			LC
RhodoBG_01	Australia	<i>R. dalhousiae</i>			LC
RhodoBG_01	Australia	<i>R. dendricola</i>			VU
RhodoBG_01	Australia	<i>R. excellens</i>			VU
RhodoBG_01	Australia	<i>R. fleuryi</i>			CR
RhodoBG_01	Australia	<i>R. formosum</i>			CR
RhodoBG_01	Australia	<i>R. johnstoneanum</i>			LC
RhodoBG_01	Australia	<i>R. johnstoneanum</i>		Double Diamond	LC
RhodoBG_01	Australia	<i>R. lindleyi</i>			LC
RhodoBG_01	Australia	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_01	Australia	<i>R. nuttallii</i>			NT
RhodoBG_01	Australia	<i>R. pachypodum</i>			LC
RhodoBG_01	Australia	<i>R. scopulorum</i>			VU
RhodoBG_01	Australia	<i>R. taggianum</i>			VU
RhodoBG_01	Australia	<i>R. valentinianum</i>			NT
RhodoBG_01	Australia	<i>R. veitchianum</i>			LC
RhodoBG_01	Australia	<i>R. veitchianum</i>		Å—Cilipense	LC
RhodoBG_02	Australia	<i>R. burmanicum</i>			LC
RhodoBG_02	Australia	<i>R. carneum</i>			NE
RhodoBG_02	Australia	<i>R. ciliatum</i>			LC
RhodoBG_02	Australia	<i>R. ciliicalyx</i>			LC
RhodoBG_02	Australia	<i>R. ciliicalyx</i>		Hybrid	LC
RhodoBG_02	Australia	<i>R. ciliicalyx</i>		Pink	LC
RhodoBG_02	Australia	<i>R. coxianum</i>			CR
RhodoBG_02	Australia	<i>R. dalhousiae</i>			LC
RhodoBG_02	Australia	<i>R. dendricola</i>			VU
RhodoBG_02	Australia	<i>R. dendricola-taronense</i>		Taronense Group	VU
RhodoBG_02	Australia	<i>R. excellens</i>			VU
RhodoBG_02	Australia	<i>R. fletcherianum</i>			EN
RhodoBG_02	Australia	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_02	Australia	<i>R. horlickianum</i>			DD
RhodoBG_02	Australia	<i>R. johnstoneanum</i>			LC
RhodoBG_02	Australia	<i>R. johnstoneanum-parryae</i>		Parryae group	LC
RhodoBG_02	Australia	<i>R. liliiflorum</i>			LC
RhodoBG_02	Australia	<i>R. lindleyi</i>			LC
RhodoBG_02	Australia	<i>R. lindleyi</i>		Ludlow & Sherriff	LC
RhodoBG_02	Australia	<i>R. lyi</i>			LC
RhodoBG_02	Australia	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_02	Australia	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_02	Australia	<i>R. maddenii</i>			LC
RhodoBG_02	Australia	<i>R. nuttallii</i>			NT
RhodoBG_02	Australia	<i>R. pachypodum</i>			LC

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_02	Australia	<i>R. scopulorum</i>			VU
RhodoBG_02	Australia	<i>R. taggianum</i>			VU
RhodoBG_02	Australia	<i>R. valentinianum</i>			NT
RhodoBG_02	Australia	<i>R. veitchianum</i>			LC
RhodoBG_02	Australia	<i>R. veitchianum</i>		Ashcombe	LC
RhodoBG_03	Australia	<i>R. burmanicum</i>			LC
RhodoBG_03	Australia	<i>R. carneum</i>			NE
RhodoBG_03	Australia	<i>R. chunienii</i>			DD
RhodoBG_03	Australia	<i>R. ciliatum</i>			LC
RhodoBG_03	Australia	<i>R. ciliicalyx</i>			LC
RhodoBG_03	Australia	<i>R. ciliipes</i>			DD
RhodoBG_03	Australia	<i>R. coxianum</i>			CR
RhodoBG_03	Australia	<i>R. dalhousiae</i>			LC
RhodoBG_03	Australia	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_03	Australia	<i>R. dendricola</i>			VU
RhodoBG_03	Australia	<i>R. excellens</i>			VU
RhodoBG_03	Australia	<i>R. fletcherianum</i>			EN
RhodoBG_03	Australia	<i>R. fletcherianum</i>		Yellow Bunting	EN
RhodoBG_03	Australia	<i>R. formosum</i>			CR
RhodoBG_03	Australia	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_03	Australia	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_03	Australia	<i>R. horlickianum</i>			DD
RhodoBG_03	Australia	<i>R. johnstoneanum</i>			LC
RhodoBG_03	Australia	<i>R. johnstoneanum</i>		Buff	LC
RhodoBG_03	Australia	<i>R. levinei</i>			NT
RhodoBG_03	Australia	<i>R. liliiflorum</i>			LC
RhodoBG_03	Australia	<i>R. lindleyi</i>			LC
RhodoBG_03	Australia	<i>R. lindleyi</i>		Ludlow & Sherriff	LC
RhodoBG_03	Australia	<i>R. ludwigianum</i>			CR
RhodoBG_03	Australia	<i>R. lyi</i>			LC
RhodoBG_03	Australia	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_03	Australia	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_03	Australia	<i>R. maddenii</i>			LC
RhodoBG_03	Australia	<i>R. megacalyx</i>			LC
RhodoBG_03	Australia	<i>R. nuttallii</i>			NT
RhodoBG_03	Australia	<i>R. pachypodum</i>			LC
RhodoBG_03	Australia	<i>R. parryae</i>			LC
RhodoBG_03	Australia	<i>R. polyandrum</i>			LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_03	Australia	<i>R. scopulorum</i>			VU
RhodoBG_03	Australia	<i>R. taggianum</i>			VU
RhodoBG_03	Australia	<i>R. valentinianum</i>			NT
RhodoBG_03	Australia	<i>R. veitchianum</i>			LC
RhodoBG_03	Australia	<i>R. veitchianum</i>		Ashcombe	LC
RhodoBG_04	Australia	<i>R. ciliicalyx</i>			LC
RhodoBG_04	Australia	<i>R. veitchianum</i>			LC
RhodoBG_05	Australia	<i>R. ciliatum</i>			LC
RhodoBG_05	Australia	<i>R. ciliicalyx</i>			LC
RhodoBG_05	Australia	<i>R. formosum</i>			CR
RhodoBG_05	Australia	<i>R. johnstoneanum</i>			LC
RhodoBG_05	Australia	<i>R. lindleyi</i>			LC
RhodoBG_05	Australia	<i>R. nuttallii</i>			NT
RhodoBG_05	Australia	<i>R. pachypodum</i>			LC
RhodoBG_06	Australia	<i>R. burmanicum</i>			LC

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_06	Australia	<i>R. nuttallii</i>		Highborn	NT
RhodoBG_07	Belgium	<i>R. changii</i>			VU
RhodoBG_07	Belgium	<i>R. ciliatum</i>			LC
RhodoBG_07	Belgium	<i>R. horlickianum</i>			DD
RhodoBG_07	Belgium	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_07	Belgium	<i>R. maddenii</i>			LC
RhodoBG_07	Belgium	<i>R. mianningense</i>			LC
RhodoBG_07	Belgium	<i>R. pachypodum</i>			LC
RhodoBG_07	Belgium	<i>R. pseudociliipes</i>			VU
RhodoBG_07	Belgium	<i>R. taggianum</i>			VU
RhodoBG_08	Belgium	<i>R. carneum</i>			NE
RhodoBG_08	Belgium	<i>R. excellens</i>			VU
RhodoBG_08	Belgium	<i>R. kiangsiense</i>			EN
RhodoBG_08	Belgium	<i>R. liliiflorum</i>			LC
RhodoBG_09	Belgium	<i>R. cuffeanum</i>			NE
RhodoBG_10	Canada	<i>R. valentinianum</i>			NT
RhodoBG_11	Canada	<i>R. changii</i>			VU
RhodoBG_11	Canada	<i>R. ciliatum</i>			LC
RhodoBG_11	Canada	<i>R. crenulatum</i>			LC
RhodoBG_11	Canada	<i>R. excellens</i>			VU
RhodoBG_11	Canada	<i>R. levinei</i>			NT
RhodoBG_11	Canada	<i>R. liliiflorum</i>			LC
RhodoBG_11	Canada	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_11	Canada	<i>R. nuttallii</i>			NT
RhodoBG_11	Canada	<i>R. pachypodum</i>			LC
RhodoBG_11	Canada	<i>R. valentinianum</i>			NT
RhodoBG_11	Canada	<i>R. wumingense</i>			VU
RhodoBG_12	Canada	<i>R. ciliatum</i>			LC
RhodoBG_12	Canada	<i>R. fletcheranum</i>			EN
RhodoBG_12	Canada	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_12	Canada	<i>R. pachypodum</i>			LC
RhodoBG_12	Canada	<i>R. valentinianum</i>			NT
RhodoBG_13	China	<i>R. changii</i>			VU
RhodoBG_13	China	<i>R. ciliicalyx</i>			LC
RhodoBG_13	China	<i>R. dalhousiae</i>			LC
RhodoBG_13	China	<i>R. excellens</i>			VU
RhodoBG_13	China	<i>R. liliiflorum</i>			LC
RhodoBG_13	China	<i>R. lindleyi</i>			LC
RhodoBG_13	China	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_13	China	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_13	China	<i>R. maddenii</i>			LC
RhodoBG_13	China	<i>R. megacalyx</i>			LC
RhodoBG_13	China	<i>R. pachypodum</i>			LC
RhodoBG_13	China	<i>R. rhombifolium</i>			DD
RhodoBG_13	China	<i>R. roseatum</i>			VU
RhodoBG_13	China	<i>R. taggianum</i>			VU
RhodoBG_13	China	<i>R. valentinianum</i>			NT
RhodoBG_14	China	<i>R. excellens</i>			VU
RhodoBG_14	China	<i>R. levinei</i>			NT
RhodoBG_15	China	<i>R. ciliatum</i>			LC
RhodoBG_15	China	<i>R. liliiflorum</i>			LC
RhodoBG_15	China	<i>R. linearilobum</i>			DD
RhodoBG_15	China	<i>R. maddenii</i>			LC
RhodoBG_15	China	<i>R. pachypodum</i>			LC
RhodoBG_15	China	<i>R. rhombifolium</i>			DD
RhodoBG_15	China	<i>R. roseatum</i>			VU
RhodoBG_15	China	<i>R. taronense</i>			VU

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_16	China	<i>R. chunienii</i>			DD
RhodoBG_16	China	<i>R. kiangsiense</i>			EN
RhodoBG_16	China	<i>R. levinei</i>			NT
RhodoBG_16	China	<i>R. liliiflorum</i>			LC
RhodoBG_16	China	<i>R. pachypodum</i>			LC
RhodoBG_17	China	<i>R. levinei</i>			NT
RhodoBG_17	China	<i>R. liliiflorum</i>			LC
RhodoBG_18	Czechia	<i>R. ciliatum</i>			LC
RhodoBG_19	Denmark	<i>R. ciliatum</i>			LC
RhodoBG_19	Denmark	<i>R. johnstoneanum</i>			LC
RhodoBG_20	France	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_20	France	<i>R. dendricola</i>			VU
RhodoBG_20	France	<i>R. excellens</i>			VU
RhodoBG_20	France	<i>R. kiangsiense</i>			EN
RhodoBG_21	France	<i>R. ciliatum</i>			LC
RhodoBG_22	France	<i>R. burmanicum</i>			LC
RhodoBG_22	France	<i>R. odoriferum</i>			LC as <i>R. maddenii</i> ssp. <i>crassum</i>
RhodoBG_23	France	<i>R. lindleyi</i>			LC
RhodoBG_24	France	<i>R. ciliatum</i>			LC
RhodoBG_24	France	<i>R. excellens</i>			VU
RhodoBG_24	France	<i>R. fletcherianum</i>			EN
RhodoBG_24	France	<i>R. sinonuttallii</i>			VU
RhodoBG_24	France	<i>R. valentinianum</i>			NT
RhodoBG_25	Germany	<i>R. lindleyi</i>			LC
RhodoBG_25	Germany	<i>R. maddenii</i>			LC
RhodoBG_25	Germany	<i>R. megacalyx</i>			LC
RhodoBG_25	Germany	<i>R. taggianum</i>			VU
RhodoBG_26	Germany	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_26	Germany	<i>R. maddenii</i>			LC
RhodoBG_27	Germany	<i>R. ciliatum</i>			LC
RhodoBG_28	Netherlands	<i>R. ciliatum</i>			LC
RhodoBG_29	Netherlands	<i>R. johnstoneanum</i>			LC
RhodoBG_30	Netherlands	<i>R. mianningense</i>			LC
RhodoBG_30	Netherlands	<i>R. pachypodum</i>			LC
RhodoBG_30	Netherlands	<i>R. pseudociliipes</i>			VU
RhodoBG_31	New Zealand	<i>R. burmanicum</i>			LC
RhodoBG_31	New Zealand	<i>R. dendricola</i>			VU
RhodoBG_31	New Zealand	<i>R. johnstoneanum</i>		Ken Burns	LC
RhodoBG_31	New Zealand	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_31	New Zealand	<i>R. maddenii</i>			LC
RhodoBG_31	New Zealand	<i>R. nuttallii</i>			NT
RhodoBG_32	New Zealand	<i>R. brachysiphon</i>			LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_32	New Zealand	<i>R. burmanicum</i>			LC
RhodoBG_32	New Zealand	<i>R. carneum</i>			NE
RhodoBG_32	New Zealand	<i>R. ciliatum</i>			LC
RhodoBG_32	New Zealand	<i>R. ciliicalyx</i>			LC
RhodoBG_32	New Zealand	<i>R. ciliipes</i>			DD
RhodoBG_32	New Zealand	<i>R. crassum</i>			LC
RhodoBG_32	New Zealand	<i>R. cubitti</i>			LC as <i>R. veitchianum</i>
RhodoBG_32	New Zealand	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_32	New Zealand	<i>R. dalhousiae</i>			LC
RhodoBG_32	New Zealand	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_32	New Zealand	<i>R. dendricola</i>			VU
RhodoBG_32	New Zealand	<i>R. excellens</i>			VU
RhodoBG_32	New Zealand	<i>R. fletcherianum</i>			EN
RhodoBG_32	New Zealand	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_32	New Zealand	<i>R. inaequale</i>			DD
RhodoBG_32	New Zealand	<i>R. johnstoneanum</i>			LC
RhodoBG_32	New Zealand	<i>R. johnstoneanum</i>		Double Diamond	LC
RhodoBG_32	New Zealand	<i>R. leptocladon</i>			VU
RhodoBG_32	New Zealand	<i>R. lindleyi</i>			LC
RhodoBG_32	New Zealand	<i>R. lindleyii</i>		Ludlow & Sheriff	LC
RhodoBG_32	New Zealand	<i>R. ludwigianum</i>			CR
RhodoBG_32	New Zealand	<i>R. lyi</i>			LC
RhodoBG_32	New Zealand	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_32	New Zealand	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_32	New Zealand	<i>R. maddenii</i>			LC
RhodoBG_32	New Zealand	<i>R. manipurensense</i>			LC as <i>R. maddenii</i> ssp. <i>crassum</i>
RhodoBG_32	New Zealand	<i>R. megacalyx</i>			LC
RhodoBG_32	New Zealand	<i>R. nuttallii</i>			NT
RhodoBG_32	New Zealand	<i>R. nuttallii</i>		Stellata	NT
RhodoBG_32	New Zealand	<i>R. pachypodum</i>			LC
RhodoBG_32	New Zealand	<i>R. polyandrum</i>			LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_32	New Zealand	<i>R. rhabdotum</i>			VU
RhodoBG_32	New Zealand	<i>R. scopulorum</i>			VU
RhodoBG_32	New Zealand	<i>R. surasianum</i>			LC
RhodoBG_32	New Zealand	<i>R. taggianum</i>			VU
RhodoBG_32	New Zealand	<i>R. taronense</i>			VU
RhodoBG_32	New Zealand	<i>R. valentinianum</i>			NT
RhodoBG_32	New Zealand	<i>R. veitchianum</i>			LC
RhodoBG_32	New Zealand	<i>R. veitchianum</i>		Ice White	LC
RhodoBG_33	New Zealand	<i>R. burmanicum</i>			LC
RhodoBG_33	New Zealand	<i>R. burmanicum</i>		×MyLady×Rose Scott	LC
RhodoBG_33	New Zealand	<i>R. carneum</i>			NE
RhodoBG_33	New Zealand	<i>R. ciliatum</i>			LC
RhodoBG_33	New Zealand	<i>R. ciliipes</i>			DD
RhodoBG_33	New Zealand	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC
RhodoBG_33	New Zealand	<i>R. dendricola</i>			VU
RhodoBG_33	New Zealand	<i>R. excellens</i>			VU
RhodoBG_33	New Zealand	<i>R. fletcherianum</i>			EN
RhodoBG_33	New Zealand	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_33	New Zealand	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_33	New Zealand	<i>R. johnstoneanum</i>			LC
RhodoBG_33	New Zealand	<i>R. johnstoneanum</i>		Double Diamond	LC
RhodoBG_33	New Zealand	<i>R. johnstoneanum</i>		Ken Burns	LC
RhodoBG_33	New Zealand	<i>R. lindleyi</i>			LC
RhodoBG_33	New Zealand	<i>R. lyi</i>			LC
RhodoBG_33	New Zealand	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_33	New Zealand	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_33	New Zealand	<i>R. maddenii</i>			LC
RhodoBG_33	New Zealand	<i>R. megacalyx</i>			LC
RhodoBG_33	New Zealand	<i>R. nuttallii</i>			NT
RhodoBG_33	New Zealand	<i>R. nuttallii</i>		Lilac Time	NT
RhodoBG_33	New Zealand	<i>R. pachypodum</i>			LC
RhodoBG_33	New Zealand	<i>R. parryae</i>			LC
RhodoBG_33	New Zealand	<i>R. scopulorum</i>			VU
RhodoBG_33	New Zealand	<i>R. taggianum</i>			VU
RhodoBG_33	New Zealand	<i>R. valentinianum</i>	var. <i>oblongilobatum</i>		NT
RhodoBG_33	New Zealand	<i>R. veitchianum</i>			LC
RhodoBG_33	New Zealand	<i>R. veitchianum</i>		Ashcombe	LC
RhodoBG_33	New Zealand	<i>R. veitchianum</i>		IceWhite	LC
RhodoBG_34	New Zealand	<i>R. burmanicum</i>			LC
RhodoBG_34	New Zealand	<i>R. crassum</i>			LC
RhodoBG_34	New Zealand	<i>R. johnstoneanum</i>			LC
RhodoBG_34	New Zealand	<i>R. maddenii</i>			LC
RhodoBG_34	New Zealand	<i>R. nuttallii</i>			NT
RhodoBG_34	New Zealand	<i>R. parryae</i>			LC
RhodoBG_34	New Zealand	<i>R. polyandrum</i>			LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_34	New Zealand	<i>R. scopulorum</i>			VU
RhodoBG_34	New Zealand	<i>R. veitchianum</i>			LC
RhodoBG_35	New Zealand	<i>R. burmanicum</i>			LC
RhodoBG_35	New Zealand	<i>R. formosum</i>			CR
RhodoBG_35	New Zealand	<i>R. johnstoneanum</i>			LC
RhodoBG_35	New Zealand	<i>R. johnstoneanum</i>		Ken Burns	LC
RhodoBG_35	New Zealand	<i>R. maddenii</i>		WaddersbillK.B.	LC
RhodoBG_35	New Zealand	<i>R. veitchianum</i>			LC
RhodoBG_36	Norway	<i>R. changii</i>			VU
RhodoBG_36	Norway	<i>R. ciliatum</i>			LC
RhodoBG_36	Norway	<i>R. ciliicalyx</i>			LC
RhodoBG_36	Norway	<i>R. fletcherianum</i>			EN
RhodoBG_36	Norway	<i>R. formosum</i>		Shillong	CR
RhodoBG_36	Norway	<i>R. liliiflorum</i>			LC
RhodoBG_36	Norway	<i>R. lindleyi</i>			LC
RhodoBG_36	Norway	<i>R. mianningense</i>			LC
RhodoBG_37	Russia	<i>R. burmanicum</i>			LC
RhodoBG_37	Russia	<i>R. ciliicalyx</i>			LC
RhodoBG_37	Russia	<i>R. cubittii</i>			LC as <i>R. veitchianum</i>
RhodoBG_37	Russia	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_37	Russia	<i>R. lyi</i>			LC
RhodoBG_37	Russia	<i>R. parryae</i>			LC
RhodoBG_38	Russia	<i>R. ciliicalyx</i>			LC
RhodoBG_38	Russia	<i>R. lyi</i>			LC
RhodoBG_39	South Korea	<i>R. dalhousiae</i>			LC
RhodoBG_40	Sweden	<i>R. maddenii</i>			LC
RhodoBG_41	Switzerland	<i>R. cubittii</i>			LC as <i>R. veitchianum</i>
RhodoBG_41	Switzerland	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC
RhodoBG_41	Switzerland	<i>R. formosum</i>			CR
RhodoBG_41	Switzerland	<i>R. odoriferum</i>			LC as <i>R. maddenii</i> ssp.

BG code	Country	Species	ssp./var.	cultivar	Red List
					<i>crassum</i>
RhodoBG_42	UK	<i>R. excellens</i>			VU
RhodoBG_43	UK	<i>R. ciliatum</i>			LC
RhodoBG_43	UK	<i>R. fletcherianum</i>			EN
RhodoBG_43	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_43	UK	<i>R. liliiflorum</i>			LC
RhodoBG_43	UK	<i>R. maddenii</i>	ssp. maddenii		LC
RhodoBG_43	UK	<i>R. maddenii</i>	ssp. crassum		LC
RhodoBG_43	UK	<i>R. pachypodum</i>			LC
RhodoBG_43	UK	<i>R. wumingense</i>			VU
RhodoBG_44	UK	<i>R. excellens</i>			VU
RhodoBG_45	UK	<i>R. ciliatum</i>			LC
RhodoBG_45	UK	<i>R. dalhousiae</i>	var. rhabdotum		VU
RhodoBG_46	UK	<i>R. ciliatum</i>			LC
RhodoBG_46	UK	<i>R. formosum</i>	var. formosum		CR
RhodoBG_46	UK	<i>R. valentinianum</i>			NT
RhodoBG_47	UK	<i>R. dalhousiae</i>			LC
RhodoBG_48	UK	<i>R. formosum</i>			CR
RhodoBG_48	UK	<i>R. iteophyllum</i>			NE
RhodoBG_48	UK	<i>R. ludwigianum</i>			CR
RhodoBG_48	UK	<i>R. lyi</i>			LC
RhodoBG_48	UK	<i>R. maddenii</i>	ssp. maddenii		LC
RhodoBG_48	UK	<i>R. maddenii</i>			LC
RhodoBG_48	UK	<i>R. pachypodum</i>			LC
RhodoBG_48	UK	<i>R. taronense</i>			VU
RhodoBG_49	UK	<i>R. burmanicum</i>			LC
RhodoBG_49	UK	<i>R. burmanicum</i>		Elizabeth David	LC
RhodoBG_49	UK	<i>R. carneum</i>			NE
RhodoBG_49	UK	<i>R. changii</i>			VU
RhodoBG_49	UK	<i>R. chunienii</i>			DD
RhodoBG_49	UK	<i>R. ciliatum</i>			LC
RhodoBG_49	UK	<i>R. ciliicalyx</i>		Walter Maynard	LC
RhodoBG_49	UK	<i>R. ciliipes</i>			DD
RhodoBG_49	UK	<i>R. crenulatum</i>			LC
RhodoBG_49	UK	<i>R. dalhousiae</i>	var. rhabdotum		VU
RhodoBG_49	UK	<i>R. dalhousiae</i>			LC
RhodoBG_49	UK	<i>R. dalhousiae</i>	var. dalhousiae		LC
RhodoBG_49	UK	<i>R. dendricola</i>			VU
RhodoBG_49	UK	<i>R. excellens</i>			VU
RhodoBG_49	UK	<i>R. formosum</i>	var. formosum		CR
RhodoBG_49	UK	<i>R. formosum</i>	var. inaequale		DD
RhodoBG_49	UK	<i>R. horlickianum</i>			DD
RhodoBG_49	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_49	UK	<i>R. leptocladon</i>			VU
RhodoBG_49	UK	<i>R. liliiflorum</i>			LC
RhodoBG_49	UK	<i>R. lindleyi</i>			LC
RhodoBG_49	UK	<i>R. ludwigianum</i>			CR
RhodoBG_49	UK	<i>R. lyi</i>			LC
RhodoBG_49	UK	<i>R. maddenii</i>	ssp. maddenii		LC
RhodoBG_49	UK	<i>R. maddenii</i>	ssp. crassum		LC
RhodoBG_49	UK	<i>R. maddenii</i>			LC
RhodoBG_49	UK	<i>R. megacalyx</i>			LC
RhodoBG_49	UK	<i>R. nuttallii</i>			NT
RhodoBG_49	UK	<i>R. pachypodum</i>			LC
RhodoBG_49	UK	<i>R. parryae</i>			LC
RhodoBG_49	UK	<i>R. pseudociliipes</i>			VU
RhodoBG_49	UK	<i>R. rufosquamosum</i>			NE



BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_49	UK	<i>R. scopulorum</i>			VU
RhodoBG_49	UK	<i>R. valentinianum</i>	var. <i>oblongilobatum</i>		NT
RhodoBG_49	UK	<i>R. valentinianum</i>	var. <i>valentinianum</i>		NT
RhodoBG_49	UK	<i>R. veitchianum</i>			LC
RhodoBG_49	UK	<i>R. walongense</i>			VU
RhodoBG_50	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_51	UK	<i>R. maddenii</i>			LC
RhodoBG_52	UK	<i>R. ciliatum</i>			LC
RhodoBG_53	UK	<i>R. ciliatum</i>			LC
RhodoBG_53	UK	<i>R. ciliipes</i>			DD
RhodoBG_53	UK	<i>R. crenulatum</i>			LC
RhodoBG_53	UK	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_53	UK	<i>R. dalhousiae</i>			LC
RhodoBG_53	UK	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC
RhodoBG_53	UK	<i>R. dendricola</i>			VU
RhodoBG_53	UK	<i>R. excellens</i>			VU
RhodoBG_53	UK	<i>R. fletcherianum</i>			EN
RhodoBG_53	UK	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_53	UK	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_53	UK	<i>R. horlickianum</i>			DD
RhodoBG_53	UK	<i>R. liliiflorum</i>			LC
RhodoBG_53	UK	<i>R. ludwigianum</i>			CR
RhodoBG_53	UK	<i>R. lyi</i>			LC
RhodoBG_53	UK	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_53	UK	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_53	UK	<i>R. maddenii</i>			LC
RhodoBG_53	UK	<i>R. nuttallii</i>			NT
RhodoBG_53	UK	<i>R. scopulorum</i>			VU
RhodoBG_53	UK	<i>R. valentinianum</i>	var. <i>oblongilobatum</i>		NT
RhodoBG_53	UK	<i>R. veitchianum</i>			LC
RhodoBG_54	UK	<i>R. burmanicum</i>			LC
RhodoBG_54	UK	<i>R. ciliatum</i>			LC
RhodoBG_54	UK	<i>R. dendricola</i>			VU
RhodoBG_54	UK	<i>R. formosum</i>			CR
RhodoBG_54	UK	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_54	UK	<i>R. manipurense</i>			LC as <i>R. maddenii</i> ssp. <i>crassum</i>
RhodoBG_54	UK	<i>R. valentinianum</i>			NT
RhodoBG_55	UK	<i>R. burmanicum</i>			LC
RhodoBG_55	UK	<i>R. ciliatum</i>			LC
RhodoBG_55	UK	<i>R. ciliicalyx</i>			LC
RhodoBG_55	UK	<i>R. dalhousiae</i>			LC
RhodoBG_55	UK	<i>R. dalhousiae</i>		Frank Ludlow	LC
RhodoBG_55	UK	<i>R. dendricola</i>			VU
RhodoBG_55	UK	<i>R. formosum</i>			CR
RhodoBG_55	UK	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_55	UK	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_55	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_55	UK	<i>R. lindleyi</i>			LC
RhodoBG_55	UK	<i>R. lindleyi</i>		Dame Edith Sitwell	LC
RhodoBG_55	UK	<i>R. lyi</i>			LC

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_55	UK	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_55	UK	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_55	UK	<i>R. maddenii</i>			LC
RhodoBG_55	UK	<i>R. manipurensense</i>			LC as <i>R. maddenii</i> ssp. <i>crassum</i>
RhodoBG_55	UK	<i>R. pachypodum</i>			LC
RhodoBG_55	UK	<i>R. parryae</i>			LC
RhodoBG_55	UK	<i>R. scopulorum</i>			VU
RhodoBG_55	UK	<i>R. taggianum</i>			VU
RhodoBG_55	UK	<i>R. taronense</i>			VU
RhodoBG_55	UK	<i>R. valentinianum</i>			NT
RhodoBG_55	UK	<i>R. veitchianum</i>			LC
RhodoBG_56	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_57	UK	<i>R. changii</i>			VU
RhodoBG_57	UK	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_58	UK	<i>R. burmanicum</i>			LC
RhodoBG_58	UK	<i>R. fletcherianum</i>			EN
RhodoBG_58	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_58	UK	<i>R. lyi</i>			LC
RhodoBG_58	UK	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_58	UK	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_58	UK	<i>R. maddenii</i>			LC
RhodoBG_58	UK	<i>R. scopulorum</i>			VU
RhodoBG_58	UK	<i>R. veitchianum</i>			LC
RhodoBG_59	UK	<i>R. dalhousiae</i>			LC
RhodoBG_59	UK	<i>R. formosum</i>			CR
RhodoBG_59	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_59	UK	<i>R. lindleyi</i>			LC
RhodoBG_59	UK	<i>R. maddenii</i>			LC
RhodoBG_59	UK	<i>R. nuttallii</i>			NT
RhodoBG_60	UK	<i>R. brachysiphon</i>			LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_60	UK	<i>R. burmanicum</i>			LC
RhodoBG_60	UK	<i>R. burmanicum</i>		(Glenarn Form)	LC
RhodoBG_60	UK	<i>R. ciliatum</i>			LC
RhodoBG_60	UK	<i>R. ciliicalyx</i>			LC
RhodoBG_60	UK	<i>R. crassum</i>			LC
RhodoBG_60	UK	<i>R. cubittii</i>			LC as <i>R. veitchianum</i>
RhodoBG_60	UK	<i>R. fletcherianum</i>			EN
RhodoBG_60	UK	<i>R. formosum</i>			CR
RhodoBG_60	UK	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_60	UK	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_60	UK	<i>R. iteophyllum</i>			NE
RhodoBG_60	UK	<i>R. johnstoneanum</i>			LC
RhodoBG_60	UK	<i>R. levinei</i>			NT
RhodoBG_60	UK	<i>R. lindleyi</i>			LC
RhodoBG_60	UK	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_60	UK	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_60	UK	<i>R. manipurensense</i>			LC as <i>R. maddenii</i> ssp. <i>crassum</i>

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_60	UK	<i>R. nuttallii</i>			NT
RhodoBG_60	UK	<i>R. polyandrum</i>		(Pink Form)	LC as <i>R. maddenii</i> ssp. <i>maddenii</i>
RhodoBG_61	UK	<i>R. valentinianum</i>			NT
RhodoBG_62	UK	<i>R. burmanicum</i>			LC
RhodoBG_62	UK	<i>R. ciliatum</i>			LC
RhodoBG_62	UK	<i>R. ciliicalyx</i>			LC
RhodoBG_62	UK	<i>R. horlickianum</i>			DD
RhodoBG_62	UK	<i>R. lindleyi</i>			LC
RhodoBG_62	UK	<i>R. valentinianum</i>			NT
RhodoBG_63	USA	<i>R. ciliicalyx</i>	ssp. <i>lyi</i>		LC
RhodoBG_63	USA	<i>R. pseudociliipes</i>			VU
RhodoBG_64	USA	<i>R. excellens</i>			VU
RhodoBG_64	USA	<i>R. levinei</i>			NT
RhodoBG_64	USA	<i>R. liliiflorum</i>			LC
RhodoBG_65	USA	<i>R. ciliicalyx</i>			LC
RhodoBG_65	USA	<i>R. ciliicalyx</i>		Walt Maynard	LC
RhodoBG_65	USA	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_65	USA	<i>R. fletcherianum</i>			EN
RhodoBG_65	USA	<i>R. fletcherianum</i>		Yellow Bunting (R#22302)	EN
RhodoBG_65	USA	<i>R. goreri</i>			NE
RhodoBG_65	USA	<i>R. johnstoneanum</i>			LC
RhodoBG_65	USA	<i>R. johnstoneanum</i>		Double Diamond	LC
RhodoBG_65	USA	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_65	USA	<i>R. maddenii</i>			LC
RhodoBG_65	USA	<i>R. pachypodum</i>			LC
RhodoBG_66	USA	<i>R. formosum</i>			CR
RhodoBG_67	USA	<i>R. formosum</i>			CR
RhodoBG_68	USA	<i>R. cubitii</i>		Ashcombe	LC as veitchianum
RhodoBG_68	USA	<i>R. cuffeanum</i>			NE
RhodoBG_68	USA	<i>R. formosum</i>		Edinburgh	CR
RhodoBG_68	USA	<i>R. taronense</i>			VU
RhodoBG_69	USA	<i>R. excellens</i>			VU
RhodoBG_70	USA	<i>R. johnstoneanum</i>			LC
RhodoBG_71	USA	<i>R. burmanicum</i>			LC
RhodoBG_71	USA	<i>R. carneum</i>			NE
RhodoBG_71	USA	<i>R. changii</i>			VU
RhodoBG_71	USA	<i>R. chunienii</i>			DD
RhodoBG_71	USA	<i>R. ciliatum</i>			LC
RhodoBG_71	USA	<i>R. ciliicalyx</i>			LC
RhodoBG_71	USA	<i>R. ciliicalyx</i>		Walt Maynard	LC
RhodoBG_71	USA	<i>R. ciliipes</i>			DD
RhodoBG_71	USA	<i>R. coxianum</i>			CR
RhodoBG_71	USA	<i>R. crenulatum</i>			LC
RhodoBG_71	USA	<i>R. cuffeanum</i>			NE
RhodoBG_71	USA	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC
RhodoBG_71	USA	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_71	USA	<i>R. dendricola</i>			VU
RhodoBG_71	USA	<i>R. dendricola</i>		Cons.best	VU
RhodoBG_71	USA	<i>R. excellens</i>			VU
RhodoBG_71	USA	<i>R. excellens</i>		Clark	VU
RhodoBG_71	USA	<i>R. fletcherianum</i>			EN

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_71	USA	<i>R. fletcherianum</i>			EN
RhodoBG_71	USA	<i>R. fletcherianum</i>		Yellow Bunting	EN
RhodoBG_71	USA	<i>R. fleuryi</i>			CR
RhodoBG_71	USA	<i>R. formosum</i>			CR
RhodoBG_71	USA	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_71	USA	<i>R. formosum</i>	var. <i>inaequale</i>		DD
RhodoBG_71	USA	<i>R. formosum</i>		Khasia	CR
RhodoBG_71	USA	<i>R. goreri</i>			NE
RhodoBG_71	USA	<i>R. horlickianum</i>			DD
RhodoBG_71	USA	<i>R. johnstoneanum</i>			LC
RhodoBG_71	USA	<i>R. johnstoneanum</i>		Double Diamond	LC
RhodoBG_71	USA	<i>R. johnstoneanum</i>		Rubrolineatum	LC
RhodoBG_71	USA	<i>R. kiangsiense</i>			EN
RhodoBG_71	USA	<i>R. kuomeianum</i>			DD
RhodoBG_71	USA	<i>R. leptocladon</i>			VU
RhodoBG_71	USA	<i>R. levinei</i>			NT
RhodoBG_71	USA	<i>R. liliiflorum</i>			LC
RhodoBG_71	USA	<i>R. lindleyi</i>			LC
RhodoBG_71	USA	<i>R. lindleyi</i>		Geordie Sherriff	LC
RhodoBG_71	USA	<i>R. ludwigianum</i>			DD
RhodoBG_71	USA	<i>R. lyi</i>			LC
RhodoBG_71	USA	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_71	USA	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_71	USA	<i>R. maddenii</i>			LC
RhodoBG_71	USA	<i>R. maddenii</i>		Pink Trumpet	LC
RhodoBG_71	USA	<i>R. megacalyx</i>			LC
RhodoBG_71	USA	<i>R. mianningense</i>			LC
RhodoBG_71	USA	<i>R. nuttallii</i>			NT
RhodoBG_71	USA	<i>R. nuttallii</i>		John Paul Evans	NT
RhodoBG_71	USA	<i>R. pachypodum</i>			LC
RhodoBG_71	USA	<i>R. parryae</i>			LC
RhodoBG_71	USA	<i>R. pseudociliipes</i>			VU
RhodoBG_71	USA	<i>R. pseudomaddenii</i>			LC
RhodoBG_71	USA	<i>R. roseatum</i>			VU
RhodoBG_71	USA	<i>R. scopulorum</i>			VU
RhodoBG_71	USA	<i>R. sinonuttallii</i>			VU
RhodoBG_71	USA	<i>R. surasianum</i>			LC
RhodoBG_71	USA	<i>R. taggianum</i>			VU
RhodoBG_71	USA	<i>R. taggianum</i>		Del James	VU
RhodoBG_71	USA	<i>R. valentinianum</i>			NT
RhodoBG_71	USA	<i>R. valentinianum</i>	var. <i>oblongilobatum</i>		NT
RhodoBG_71	USA	<i>R. veitchianum</i>			LC
RhodoBG_71	USA	<i>R. veitchianum</i>		Ashcombe	LC
RhodoBG_71	USA	<i>R. walongense</i>			VU
RhodoBG_71	USA	<i>R. wumingense</i>			VU
RhodoBG_72	USA	<i>R. burmanicum</i>			LC
RhodoBG_72	USA	<i>R. ciliatum</i>			LC
RhodoBG_72	USA	<i>R. ciliicalyx</i>			LC
RhodoBG_72	USA	<i>R. ciliipes</i>			DD
RhodoBG_72	USA	<i>R. crassum</i>			LC
RhodoBG_72	USA	<i>R. dalhousiae</i>	var. <i>dalhousiae</i>		LC
RhodoBG_72	USA	<i>R. dalhousiae</i>	var. <i>rhabdotum</i>		VU
RhodoBG_72	USA	<i>R. dendricola</i>			VU
RhodoBG_72	USA	<i>R. excellens</i>			VU
RhodoBG_72	USA	<i>R. fletcherianum</i>			EN
RhodoBG_72	USA	<i>R. fleuryi</i>			CR

BG code	Country	Species	ssp./var.	cultivar	Red List
RhodoBG_72	USA	<i>R. formosum</i>			CR
RhodoBG_72	USA	<i>R. formosum</i>	var. <i>formosum</i>		CR
RhodoBG_72	USA	<i>R. formosum</i>	var. <i>iteophyllum</i>		NE
RhodoBG_72	USA	<i>R. goreri</i>			NE
RhodoBG_72	USA	<i>R. horlickianum</i>			DD
RhodoBG_72	USA	<i>R. johnstoneanum</i>			LC
RhodoBG_72	USA	<i>R. levinei</i>			NT
RhodoBG_72	USA	<i>R. liliiflorum</i>			LC
RhodoBG_72	USA	<i>R. lindleyi</i>			LC
RhodoBG_72	USA	<i>R. ludwigianum</i>			CR
RhodoBG_72	USA	<i>R. lyi</i>			LC
RhodoBG_72	USA	<i>R. maddenii</i>	ssp. <i>maddenii</i>		LC
RhodoBG_72	USA	<i>R. maddenii</i>	ssp. <i>crassum</i>		LC
RhodoBG_72	USA	<i>R. maddenii</i>			LC
RhodoBG_72	USA	<i>R. megacalyx</i>			LC
RhodoBG_72	USA	<i>R. pachypodum</i>			LC
RhodoBG_72	USA	<i>R. parryae</i>			LC
RhodoBG_72	USA	<i>R. pseudociliipes</i>			VU
RhodoBG_72	USA	<i>R. scopulorum</i>			VU
RhodoBG_72	USA	<i>R. sinonuttalii</i>			VU
RhodoBG_72	USA	<i>R. valentinianum</i>			NT
RhodoBG_72	USA	<i>R. valentinianum</i>	var. <i>oblongilobatum</i>		NT
RhodoBG_72	USA	<i>R. veitchianum</i>			LC
RhodoBG_72	USA	<i>R. veitchianum</i>		Ashcombe	LC
RhodoBG_72	USA	<i>R. walongense</i>			VU
RhodoBG_72	USA	<i>R. wumingense</i>			VU
RhodoBG_73	USA	<i>R. ciliatum</i>			LC

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SUPPLEMENTARY TABLE 2 Wild accessions of *Rhododendron* subsection *Maddenia* in the 14 surveyed botanic gardens

A ‘wild collection’ was defined as a series of accessions collected from a plant in the wild that carries a unique Collector ID and represents a single wild source. In this table, a wild collection is identified by the ‘Collector ID’. A wild accession is identified by the Accession ID (‘Acc. ID’) under each wild collection.

The nature of original plant material, seeds or cuttings, was not distinguished. Plants under that collector’s number could be held at different *ex situ* sites and included multiple accessions (‘Acc. ID’ column). Subspecies, varieties, species synonyms, species cultivars of wild sources, and affinities (aff.) of taxa were included in the wild collection, as they may represent variable forms of a taxon. Accessions that were recorded as dead (‘Dead acc.’ column) and when there was no progeny recorded in other botanic gardens surveyed, were coded as invalid, even though they had previously occurred in cultivation and might represent unique origins. However, their provenance data were used in geo-mapping.

Data sources are seven gardens in New Zealand as a hotspot of *ex situ* conservation of ss. *Maddenia*, together with seven of the largest collections of ss. *Maddenia* outside New Zealand (Table 3). Sites in New Zealand are Pukeiti garden (Taranaki region) (BGCI member), Dunedin Botanic Garden (BGCI member), Tannock Glen and one private garden (Dunedin), Heritage Park, Cross Hills Gardens and one private garden (Manawatū region). Sites outside New Zealand are: Rhododendron Species Botanical Garden (RSBG, USA), Royal Botanic Garden Edinburgh (RBGE, UK; including RBGE at Edinburgh, Logan and Benmore), Royal Botanic Garden Kew (UK; including RBGK at Kew and Wakehurst), the Dandenong Ranges Botanic Garden (previously National Rhododendron Garden or Olinda Garden of Parks Victoria, Australia), Arboretum Wespelaar (Belgium), University of British Columbia Botanical Garden (UBCBG, Canada) and the Arnold Arboretum of Harvard University (USA).

Data include an unpublished dataset from an earlier survey by MacKay et al. (2018), together with additional data or individual garden updates in 2020. The use of collections data and permission of publishing compiled dataset were approved by the source botanic gardens.

Numbers in the table column ‘Wc no.’ are assigned by the authors for identifying the number of wild collections per taxon.

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ ‘cultivar’	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc burmanicum #1		<i>burmanicum</i>		1981/118	KW#21921		wc, 1956, Burma Expedition (Mt Victoria, Burma by Kingdon-Ward [Davidian1982 pp99])	
wc burmanicum #1		<i>burmanicum</i>		1999/095	KW#21921		wc, 1956, Burma Expedition (Mt Victoria, Burma by Kingdon-Ward [Davidian1982 pp99])	
wc burmanicum #2		<i>burmanicum</i>		12333		1	Collected by Prue Crome, 2700 m, Mt Victoria, Myanmar, 21/5/13	
wc changii #1		<i>changii</i>		2015/043	JN#11029		wc, Nov. 2011, S Chongqing, 2200m	
wc changii #1		<i>changii</i>		2015/014	JN#11029		wc, Nov. 2011, S Chongqing, 2200m	
wc changii #1		<i>changii</i>		2015/028	JN#11029		wc, Nov. 2011, S Chongqing, 2200m	
wc changii #2		<i>changii</i>		20091273	COH	3	China: Sichuan Province: Jinfo Shan. Epiphytic on rocks. 2,100 m.	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc changii #3		<i>changii</i>		09254	1811: no fruits	1	(CH 9001)	
wc changii #3		<i>changii</i>		09253	CH 9001	1		
wc changii #3		<i>changii</i>		09252	1811: no fruits	1	(CH 9001)	
wc changii #1	dead	<i>changii</i>		2012-0163	JN11029	0	China: Sichuan Province, s Chongqing, 2200 m	
wc changii #1		<i>changii</i>		2014-0440	JN.11029	1	China: Sichuan Province, s Chongqing, 2200 m	
wc chuneinii #1		<i>chunienii</i>		2013/262	AC#			
wc chuneinii #1?		<i>chunienii</i>		12240		1	Royal Horticultural Society seed exchange 2003 #02196, A Clark (AC 5092). Sown 26/4/03	
wc ciliatum #1		<i>ciliatum</i>		2008/315	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #1		<i>ciliatum</i>		2008/201	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #1		<i>ciliatum</i>		2008/157	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #1		<i>ciliatum</i>		2008/245	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #1		<i>ciliatum</i>		2008/286	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #1		<i>ciliatum</i>		2008/360	SEH#587		wc, Spring 1997, Sikkim, India, 8500'	
wc ciliatum #10		<i>ciliatum</i>		19820583	PRA	9	India: Sikkim, N: Yumthang, 11,600 ft.	
wc ciliatum #11		<i>ciliatum</i>		19850525	NEE	13	Nepal: Surkie La. Open summit of pass. 10,122 ft.	
wc ciliatum #12?		<i>ciliatum</i>		19840909	DIN	3	Nepal: Milke Danda, E. 8,000-9,000 ft.	
wc ciliatum #12?		<i>ciliatum</i>		19840910	DIN	1	Nepal: Milke Danda. 9,000 ft.	
wc ciliatum #14		<i>ciliatum</i>		1989-2085	FOXD 86134	3	Nepal	
wc ciliatum #14		<i>ciliatum</i>		08552		1	C.W D. Fox, DF 86134	
wc ciliatum #14		<i>ciliatum</i>		08553		1	C.W D. Fox, DF 86134	
wc ciliatum #15		<i>ciliatum</i>		07500		1	RS 1642	
wc ciliatum #15		<i>ciliatum</i>		07514		1	RS1642	
wc ciliatum #15		<i>ciliatum</i>		07517		1	RS1642	
wc ciliatum #16?	dead	<i>ciliatum</i>		1965-0029	RSF.352	0	India: Sikkim	
wc ciliatum #17?	dead	<i>ciliatum</i>			Ron Gordon?	0	Wild collected material imported from the Ron Gordon expedition to Sikkim (NZRA bulletin 67, 1977 p23).	
wc ciliatum #18?	dead	<i>ciliatum</i>			Sikkim	0	In 1990 Pukeiti Plants for Members sold material from Sikkim.	
wc ciliatum #2		<i>ciliatum</i>		2000/094	SEH#545		wc, 1997, Yumthang Valley, Sikkim Himalaya, India, 3340m	
wc ciliatum #2		<i>ciliatum</i>		2000/082	SEH#545		wc, 1997, Yumthang Valley, Sikkim Himalaya, India, 3340m	
wc ciliatum #2		<i>ciliatum</i>		2000/111	SEH#545		wc, 1997, Yumthang Valley, Sikkim Himalaya, India, 3340m	
wc ciliatum #2		<i>ciliatum</i>		2000/069	SEH#545		wc, 1997, Yumthang Valley, Sikkim Himalaya, India, 3340m	
wc ciliatum #2		<i>ciliatum</i>		2000/064	SEH#545		wc, 1997, Yumthang Valley, Sikkim Himalaya, India, 3340m	
wc ciliatum #3		<i>ciliatum</i>		1995/072	BLM#324		wc, 1971, E Nepal	
wc ciliatum #3?		<i>ciliatum</i>		19720860	BLM	1	Nepal: Barun Khola. 3,200 m.	
wc ciliatum #3?		<i>ciliatum</i>		1974-1936	BLRM 324		Nepal	
wc ciliatum #4		<i>ciliatum</i>		1980/077	LS&H#16019		wc, 1949, Bhutan Expedition	
wc ciliatum #5		<i>ciliatum</i>		1982/172	HED#378		wc, Milke Danda, Nepal, 3500m	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc ciliatum #6		<i>ciliatum</i>		19860321	LSH	1	Bhutan: Ha Dist.: Ha. Boggy ground. 9,500 ft. Shrub about 3 ft; K pale green; C pinkish-white; A filaments white, anthers brown; G style white, stigma green.	27°22' N, 89°19' E
wc ciliatum #7		<i>ciliatum</i>		19932596	SIN	2	Bhutan: Wangdi Phodrang Dist.: 1 km north of Gangtey Gumpa. South facing wet flush in blue pine forest. 2,880 m. Shrub to 1.2 m; flowers very good white.	
wc ciliatum #8		<i>ciliatum</i>		20031365	BSL	4	Possibly Bhutan.	
wc ciliatum #9		<i>ciliatum</i>		19850526	NEE	1	Nepal: By the bridge south of Poyan. Open forest. 9,000 ft. Single plant.	
wc ciliatum #13		<i>ciliatum</i>	var. nov.	19941445	WIC	2	Indonesia: Irian Jaya: Near Mt. Trikora. Plant small; flowers red.	
wc ciliicalyx #1		<i>ciliicalyx</i>		2013/203	BASE#9726			
wc ciliicalyx #2		<i>ciliicalyx</i>		03445		1	Maddenii Walk above road., Ex. Burma, NS 34	
wc ciliicalyx #2		<i>ciliicalyx</i>		03446		1	Maddenii Walk above road., Ex. Burma, NS 34	
wc ciliicalyx #2		<i>ciliicalyx</i>		03447		1	Maddenii Walk above road., Ex. Burma, NS 34	
wc ciliicalyx #2		<i>ciliicalyx</i>		03448		1	Ex. Burma, NS 34, Maddenii Walk above road	
wc ciliicalyx #3		<i>ciliicalyx</i>		08556		1	A.R.S. 87/250, C.W. Yunnan	
wc ciliicalyx #4		<i>ciliicalyx</i>	'Charisma'		KW20280		At PK. collected 1950 Lokit valley Assam, above Rima (Pukeiti 2016 list as Charisma).	
wc ciliipes #1		<i>ciliipes</i>		19991313	BSL	9	China: [Yunnan]: [Nujiang Lisu Aut. Pref.]: [Gongshan Drung-Nu Aut. Co.]: On the Mekong - Salween divide at Kawa Gepo and between the Salween and the Irrawady watershed. ca 3,000-4,000 m.	28° N, 91° E
wc ciliipes #2		<i>ciliipes</i>			K56		Kew seed China	
wc coxianum #1		<i>coxianum</i>			1984-443		Pukeiti had accession 1984-443 (PK29) (RSF 78-068, Glendoick, cutting) which was alive in 2005 (PRT 2005).	
wc crenulatum #1		<i>crenulatum</i>		20141542	HNE#184	1	Vietnam: Lao Cai: Fanipan Peak. 3,110 m.	103°46' 31.02" E, 22°18' 11.82" N
wc crenulatum #2	dead	<i>crenulatum</i>		2008-0062	PW.177	0	Vietnam: Sa Pa, Phan Xi Păng (Fansipan) summit	
wc starlingii #1		<i>crenulatum</i>		20020810	RUS#7369	4	Vietnam: Lao Cai: Sapa, Fan Si Pan, from the campsite by the first river (station282 at 22°19'11.6N, 103°46'58.9E 2074m) via the knoll at station 283 (22°18'50.1N, 103°46'52.7E, 2450m) to station 284 at upper knoll (22°18'31.8N, 103°46'36.2E 2875m). 2,900 m.	
wc cuffeanum #1		<i>cuffeanum</i>		2001/148	KW#21909		wc. 1956, Burma Expedition	
wc dalhousiae var. dalhousiae #10?	dead	<i>dalhousiae</i>			Ron Gordon	0	Wild collected material imported from the Ron Gordon expedition to Nepal (NZRA bulletin 67, 1977 p23).	
wc dalhousiae var. dalhousiae #5		<i>dalhousiae</i>		19880631	FOX	3	India: Sikkim.	
wc dalhousiae var. dalhousiae #8?		<i>dalhousiae</i>		01668		1	Ex. Sikkim	
wc dalhousiae var. dalhousiae #9?		<i>dalhousiae</i>			Jellyman		Jellyman ws (PK34) photographed at Pukeiti Dec 2019.	



Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc dalhousiae var. dalhousiae #1		<i>dalhousiae</i>	var. <i>dalhousiae</i>	2001/131	SEH#502		wc, Spring, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. dalhousiae #1		<i>dalhousiae</i>	var. <i>dalhousiae</i>	2001/029	SEH#502		wc, Spring, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. dalhousiae #2		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1997/133			wc, near Kalimpong, West Bengal, India	
wc dalhousiae var. dalhousiae #2		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1997/134			wc, near Kalimpong, West Bengal, India	
wc dalhousiae var. dalhousiae #3		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1999/132	SEH#522		wc, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. dalhousiae #3		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1999/153	SEH#522		wc, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. dalhousiae #3		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1999/170	SEH#522		wc, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. dalhousiae #4		<i>dalhousiae</i>	var. <i>dalhousiae</i>	1999/643	SEH#521		wc, 1997, Sikkim Himalaya, India, 2100m	
wc dalhousiae var. rhabdotum #1		<i>dalhousiae</i>	var. <i>rhabdotum</i>	2006/046	KCSH#0310		wc, 10-10-2003, to the Se La, east side, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8600'	
wc dalhousiae var. rhabdotum #1		<i>dalhousiae</i>	var. <i>rhabdotum</i>	2006/081	KCSH#0310		wc, 10-10-2003, to the Se La, east side, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8600'	
wc dalhousiae var. rhabdotum #1		<i>dalhousiae</i>	var. <i>rhabdotum</i>	2011/117	KCSH#0310		wc, 10-10-2003, to the Se La, east side, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8600'	
wc dalhousiae var. rhabdotum #1		<i>dalhousiae</i>	var. <i>rhabdotum</i>	2009/005	KCSH#0310		wc, 10-10-2003, to the Se La, east side, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8600'	
wc dalhousiae var. rhabdotum #1		<i>dalhousiae</i>	var. <i>rhabdotum</i>	2009/014	KCSH#0310		wc, 10-10-2003, to the Se La, east side, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8600'	
wc dalhousiae var. dalhousiae #6		<i>dalhousiae</i>	var. <i>dalhousiae</i>	19722633	SAI	1	India: W Bengal: Nr Darjeeling. 2,280 m.	
wc dalhousiae var. dalhousiae #7		<i>dalhousiae</i>	var. <i>dalhousiae</i>	19722217	BLM	1	Nepal: 1,829 m.	
wc dendricola #1		<i>dendricola</i>		2007/293	SEH#25037		wc, 5-29-05, out of Baoshan, S Gaoligong Shan, Yunnan, China, 2360m	
wc dendricola #1		<i>dendricola</i>		2007/325	SEH#25037		wc, 5-29-05, out of Baoshan, S Gaoligong Shan, Yunnan, China, 2360m	
wc dendricola #1		<i>dendricola</i>		2007/246	SEH#25037		wc, 5-29-05, out of Baoshan, S Gaoligong Shan, Yunnan, China, 2360m	
wc dendricola #1		<i>dendricola</i>		2007/231	SEH#25037		wc, 5-29-05, out of Baoshan, S Gaoligong Shan, Yunnan, China, 2360m	
wc dendricola #1		<i>dendricola</i>		2007/263	SEH#25037		wc, 5-29-05, out of Baoshan, S Gaoligong Shan, Yunnan, China, 2360m	
wc dendricola #10	dead	<i>dendricola</i>			KW20601	0	NZRA received seed of KW20601 R. <i>dendricola</i> in 1954 (NZRA bulletin 2003 p48).	
wc dendricola #2		<i>dendricola</i>		2015/044	JN#11048		wc, Nov 2011, Salween Region, W Yunnan, 1600m	
wc dendricola #2		<i>dendricola</i>		2015/059	JN#11048		wc, Nov 2011, Salween Region, W Yunnan, 1600m	
wc dendricola #2		<i>dendricola</i>		2015/029	JN#11048		wc, Nov 2011, Salween Region, W Yunnan, 1600m	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc dendricola #2		<i>dendricola</i>		2015/016	JN#11048		wc, Nov 2011, Salween Region, W Yunnan, 1600m	
wc dendricola #2		<i>dendricola</i>		2015/003	JN#11048		wc, Nov 2011, Salween Region, W Yunnan, 1600m	
wc dendricola #3		<i>dendricola</i>		2011/163	BASE#9507		wc, southern Gaoligong Shan N of Datang, Salween, China, 2235m	
wc dendricola #3		<i>dendricola</i>		2011/155	BASE#9507		wc, southern Gaoligong Shan N of Datang, Salween, China, 2235m	
wc dendricola #3		<i>dendricola</i>		2011/092	BASE#9507		wc, southern Gaoligong Shan N of Datang, Salween, China, 2235m	
wc dendricola #3		<i>dendricola</i>		2011/118	BASE#9507		wc, southern Gaoligong Shan N of Datang, Salween, China, 2235m	
wc dendricola #3		<i>dendricola</i>		2011/142	BASE#9507		wc, southern Gaoligong Shan N of Datang, Salween, China, 2235m	
wc dendricola #3		<i>dendricola</i>			BASE 9507		DBR had BDM1348, BASE 9507, ended up at DBG.	
wc dendricola #4		<i>dendricola</i>		1998/019	KW#20981		wc, 1953, The Triangle Expedition, N Burma	
wc dendricola #5		<i>dendricola</i>		1998/021	F#17227		wc, 1917-19, NE Burma, Yunnan, Sichuan & Tibet Frontiers Expedition	
wc dendricola #6		<i>dendricola</i>		2013/490	DGEY#046		wc, 9-29-01, track along Dulong Jiang north of Kongdan, NW Yunnan, China, N27° 54.461', E098° 20.577', 1600m	
wc dendricola #7		<i>dendricola</i>		19191023	FOR	6	China: Yunnan, W: Shweli-Salween divide.	
wc dendricola #8		<i>dendricola</i>		19754089	KWA	5	Myanmar: Kachin State: Ngawchang Valley, N of Htawgaw to Keng fang, Pyepat ridge, N of Htawgaw, & Black Rock. Chung-tien plateau. 3,505 m.	
wc dendricola #9		<i>dendricola</i>		1988-2299		4	China	
wc taronense #1		<i>dendricola</i>	( <i>R. taronense</i> )	02974		1	T.L. 1977	
wc taronense #1		<i>dendricola</i>	( <i>R. taronense</i> )	03744		1	1977 T.L.	
wc dendricola #5		<i>dendricola</i>	aff.	1980/087	F#17227		wc, 1917-19, NE Burma, Yunnan, Sichuan & Tibet Frontiers Expedition	
wc excellens #1		<i>excellens</i>		2015/123	FMWJ#13398		wc. N Vietnam	
wc excellens #10		<i>excellens</i>		20020815	RUS	4	Vietnam: Lao Cai: Sapa, excellens ex raod, on roadside bank.	
wc excellens #11		<i>excellens</i>		20001560	TRN	1	Vietnam: Lào Cai: Sapa, Fan Si Pan.	
wc excellens #12		<i>excellens</i>		2015-1587	VIET 375	4	Vietnam	
wc excellens #12		<i>excellens</i>		2017-1410	VIET 375	1	Vietnam	
wc excellens #12		<i>excellens</i>		2017-767	VIET 375	7	Vietnam	
wc excellens #12		<i>excellens</i>		2017-1057	VIET 375	6	Vietnam	
wc excellens #12		<i>excellens</i>		2017-634	VIET 375	3	Vietnam	
wc excellens #12		<i>excellens</i>		2017-1401	VIET 375	1	Vietnam	
wc excellens #12		<i>excellens</i>		2017-528	VIET 375	5	Vietnam	
wc excellens #12		<i>excellens</i>		2017-523	VIET 375	5	Vietnam	
wc excellens #13		<i>excellens</i>		2017-893	VIET 329	9	Vietnam	
wc excellens #13		<i>excellens</i>		2017-894	VIET 329	7	Vietnam	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc excellens #13		<i>excellens</i>		2017-895	VIET 329	6	Vietnam	
wc excellens #13		<i>excellens</i>		2017-536	VIET 329	5	Vietnam	
wc excellens #14		<i>excellens</i>		2015-1577	VIET 364	3	Vietnam	
wc excellens #14		<i>excellens</i>		2017-632	VIET 364	3	Vietnam	
wc excellens #14		<i>excellens</i>		2017-495	VIET 364	3	Vietnam	
wc excellens #15		<i>excellens</i>		09526		1	K.R.2998, S.E. Madennia Walk	
wc excellens #15		<i>excellens</i>		09658		1	Messmate forest, Mathias Rd. track, K.R. 2998	
wc excellens #15		<i>excellens</i>		09797		1	K.R. 2998, Vietnam 1994	
wc excellens #16		<i>excellens</i>		12235		1	American Rhododendron Society seed exchange 1993 AC370. Sown 3/4/93	
wc excellens #2		<i>excellens</i>		1994/380			seed w.c. at 6,500' in the Sapa region of N Vietnam	
wc excellens #27?		<i>excellens</i>				2	Wild collected by Alan Clark 1996 Yunnan, no collection number.	
wc excellens #3		<i>excellens</i>		2017/047	SEH#227			
wc excellens #3		<i>excellens</i>		1999/039	SEH#227		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2000m	
wc excellens #3		<i>excellens</i>		1999/025	SEH#227		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2000m	
wc excellens #3		<i>excellens</i>		1999/050	SEH#227		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2000m	
wc excellens #3		<i>excellens</i>		1999/081	SEH#227		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2000m	
wc excellens #4		<i>excellens</i>		2006/243	KR#7916		wc, 2003, Lao Cai, Vietnam, 1750m	
wc excellens #4		<i>excellens</i>		2006/338	KR#7916		wc, 2003, Lao Cai, Vietnam, 1750m	
wc excellens #4		<i>excellens</i>		2006/289	KR#7916		wc, 2003, Lao Cai, Vietnam, 1750m	
wc excellens #5		<i>excellens</i>		2011/094			wc, N. Vietnam, 2400m	
wc excellens #6		<i>excellens</i>		1996/053	KR#3092		wc, 1994, Vietnam Expedition	
wc excellens #9		<i>excellens</i>		20170743	LGCKH	2	Vietnam: Lao Cai: Treck up Y Ty Mnt from Nhiu Co San Village past camps 1 & 2 to summit returning via camps to Nhiu Co San Village. 1,861 m.	103°37' 27.72" E, 22°37' 28.8" N
wc excellens #28?		<i>excellens</i>	aff.	19951644	RUS	1	Vietnam: Lào Cai: Sapa, Fan Si Pan, NE ridge above the village of Sin Chay, 2,300 m.	
wc excellens #29?		<i>excellens</i>	aff.	19941651	TRN	1	Vietnam: Lào Cai: Sapa, Fan Si Pan. 2,377 m. Leaves small, narrow, to 23-33 mm wide, 9 cm. long. Capsule c. 4 cm., 5 cells.	
wc excellens #15		<i>excellens</i>			KR2998		Wild collected seed of R. excellens KR2998 (PK01) came to Pukeiti via Os Blumhardt in 1994 (NZRA bulletin 2003 p21).	
wc excellens #17	dead	<i>excellens</i>		2015-0258	HN-E003	0	San Sa Ho	
wc excellens #18	dead	<i>excellens</i>		2015-0325	HN-E329	0	Tay Con Linh Mountain, Xan Xa Ho Village Lao Commune	
wc excellens #19	dead	<i>excellens</i>		2015-0330	HN-E375	0	Tay Con Linh Mountain, Xan Xa Ho Village Lao Commune	
wc excellens #20	dead	<i>excellens</i>		2015-0620	HN-E364	0	Tay Con Linh Mountain, Xan Xa Ho Village Lao Commune	
wc excellens #21	dead	<i>excellens</i>		2016-0094	HN-UBC.31A	0	Sa Pa, Phan Xi Păng (Fansipan)	
wc excellens #22		<i>excellens</i>			AC5630		R. excellens AC5630 (PK30), collected North Vietnam, offered for sale in 2012 (PPM2012).	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc excellens #23		<i>excellens</i>			TVO-064		Sapa, Fan Si Pan? (RBGE Herbarium: R. excellens TVO27)	
wc excellens #24		<i>excellens</i>			AC435			
wc excellens #25		<i>excellens</i>			DT307-98		Seed purchased from the RHS in 1993 by L Davies (NZRA bulletin 88, 2000, p58). DT307-98 (HP01) at Heritage Park.	
wc excellens #26?		<i>excellens</i>			Nth Vietnam		Nth Vietnam (OM34) via Hudson (in colln 198 ).	
wc excellens #5		<i>excellens</i>			SEH227		Hootman collection (DBR spreadsheet).	
wc excellens #30		<i>excellens</i>	aff.	2009-0218	NVD.0718	1	Lao Cai, Sa Pa; 2323 m	
wc excellens #31?	dead	<i>excellens</i>	aff.	2007-0376	NA	0	Yunnan Province, Kuming; 1950m	
wc excellens #31?	dead	<i>excellens</i>	aff.	2007-0377	NA	0	Yunnan Province, Kuming; 1950m	
wc excellens #32?	dead	<i>excellens</i>	aff.	2013-0131	NA	0	NA	
wc excellens #32?	dead	<i>excellens</i>	aff.	2013-0133	NA	0	NA	
wc excellens #7		<i>excellens</i>	aff.	1998/008	KR#2948		wc, 1994, Vietnam Expedition	
wc excellens #8		<i>excellens</i>	aff.	1998/007	KR#3093		wc, 1994, Vietnam Expedition	
wc flecheranum #1	dead	<i>flecheranum</i>			Rock 22302	0	Imported by Pukeiti from the Species Foundation (SF65/355) in 1975 (NZRA bulletin 67, 1979, p 24). Seedlings of Rock 22302 offered for sale in 2011 (PPM2011) and 2012 (PPM2012)	
wc flecheranum #1		<i>fletcherianum</i>		1968/858	R#22302		wc, 1932, NW Yunnan, China Expedition	
wc flecheranum #2		<i>fletcherianum</i>		19754070	ROC	11	China: Xizang (Tibet) Aut. Reg.: Solo La. 4,250 m.	
wc flecheranum #2		<i>fletcherianum</i>		20171082	ROC	3	China: Xizang (Tibet) Aut. Reg.: Solo La. 4,250 m.	
wc flecheranum #2	dead	<i>fletcherianum</i>		20191134	ROC	0	China: Xizang (Tibet) Aut. Reg.: Solo La. 4,250 m.	
wc flecheranum #1		<i>fletcherianum</i>	'Yellow Bunting'	1974/071	R#22302		wc, 1932, NW Yunnan, China Expedition	
wc fleuryi #1		<i>fleuryi</i>		1998/009	KR#3286		wc, 1994, Vietnam Expedition	
wc fleuryi #1		<i>fleuryi</i>		1996/040	KR#3286		wc, 1994, Vietnam Expedition	
wc formosum var. formosum #2		<i>formosum</i>	var. <i>formosum</i> 'Khasia'	1998/012	C&H#320		wc, 1965, Khasia, Arunachal Pradesh, & Bengal N India Expedition	
wc formosum var. inaequale #1		<i>formosum</i>	var. <i>inaequale</i>	1998/002	C&H#301		wc, 1965, Khasia, Arunachal Pradesh, & Bengal N India Expedition	
wc formosum var. inaequale #1		<i>formosum</i>	var. <i>inaequale</i>	2002-2122	COHU 301	3	India	
wc formosum var. formosum #1		<i>formosum</i>	aff.	2007/267	APA#008		wc, 10-11-05, floodplain of Yang Sang, Arunachal Pradesh, India, (Arunachal Pradesh Abroka Expedition), 5000'	
wc formosum var. formosum #3		<i>formosum</i>	var. <i>formosum</i>	19751328	CHA	20	India: Meghalaya: Shillong, below Elephant Falls. 1,750 m.	
wc formosum var. formosum #3	dead	<i>formosum</i>	var. <i>formosum</i>	20191121	CHA	0	India: Meghalaya: Shillong, below Elephant Falls. 1,750 m.	
wc formosum var. formosum #4		<i>formosum</i>	var. <i>formosum</i>	20141092		2	India: Sikkim.	
wc formosum var. formosum #4		<i>formosum</i>	var. <i>formosum</i>	19731586		1	India: Sikkim.	

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wc formosum var. formosum #6		<i>formosum</i>	var. <i>formosum</i> 'Ten Tashi'		Ten Tashi		R. formosum 'Ten Tashi' (PK18) imported by Pukeiti from Greer Gardens, USA, in 1985 (NZRA bulletin 1986 p64). Pukeiti card file says it came from Schick – possibly 1976 (check)	
wc formosum var. inaequale #2		<i>formosum</i>	var. <i>inaequale</i>	19730900	COH	3	India: Meghalaya: Khasia Hills: Nr Morphlong to Shillong Rd.	
wc formosum var. inaequale #2		<i>formosum</i>	var. <i>inaequale</i>	20141083	COH	3	India: Meghalaya: Khasia Hills: Nr Morphlong to Shillong Rd.	
wc formosum var. inaequale #2		<i>formosum</i>	var. <i>inaequale</i>	20141085	COH	4	India: Meghalaya: Khasia Hills: Nr Morphlong to Shillong Rd.	
wc formosum var. inaequale #3		<i>formosum</i>	var. <i>inaequale</i>	19803103	COH	1	India: Arunchal Pradesh: W Peak of Ridge SE of Apa Tani Valley. 3,000 m.	
wc formosum var. inaequale #4		<i>formosum</i>	var. <i>inaequale</i>		KW16029		PK has KW16029 (Windsor 1975, cuttings).	
wc formosum var. inaequale #5	dead	<i>formosum</i>	var. <i>inaequale</i>		KW20301	0	R. formosum inaequale KW20301 offered for sale in 2008 (PPM2008) but not listed at Pukeiti now. KW20301 came from NZRA in 1955. Card file thinks 20301 may be a hybrid. KW20301 used to be at Eastwoodhill.	
wc goreri #1		<i>goreri</i>		2005/235	RR#112		wc, fall 2002, Tibet	
wc goreri #2		<i>goreri</i>		2005/249	RR#122		wc, fall 2002, Tibet	
wc goreri #2		<i>goreri</i>		2005/213	RR#122		wc, fall 2002, Tibet	
wc goreri #3		<i>goreri</i>		2003/168	KR#6027		wc, 10-2-99, Rong chu valley below Trulong at station 30, Tibet, 2020m	
wc goreri #3		<i>goreri</i>		2003/188	KR#6027		wc, 10-2-99, Rong chu valley below Trulong at station 30, Tibet, 2020m	
wc goreri #3		<i>goreri</i>		2003/195	KR#6027		wc, 10-2-99, Rong chu valley below Trulong at station 30, Tibet, 2020m	
wc goreri #3		<i>goreri</i>		2003/112	KR#6027		wc, 10-2-99, Rong chu valley below Trulong at station 30, Tibet, 2020m	
wc goreri #3		<i>goreri</i>		2003/139	KR#6027		wc, 10-2-99, Rong chu valley below Trulong at station 30, Tibet, 2020m	
wc goreri #3	dead	<i>goreri</i>			KR6027	0	DBR had BDM1203 (KR6027) but it was never offered for sale.	
wc horlickianum #1		<i>horlickianum</i>		2002/004	CCHH#8074		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc horlickianum #1		<i>horlickianum</i>		2002/011	CCHH#8074		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc horlickianum #2		<i>horlickianum</i>		1987/053	KW#9403		wc, 1931, Upper Burma & Tibetan Frontier Expedition	
wc horlickianum #3		<i>horlickianum</i>		19321007	KWA	13	Myanmar: Chin Special Division: Adung Valley. In thickets along river bank or on cliffs. 2,134 m.	
wc horlickianum #4?		<i>horlickianum</i>		17417	BE 1219	3	MaDoi Mountains, MM,2700m	
wc horlickianum #5?		<i>horlickianum</i>			Colln 200		Colln 200 (wc?) has a plant from GDK, could that be ws?	
wc johnstoneanum #1		<i>johnstoneanum</i>		2013/407	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanum</i>		2013/436	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanum</i>		2013/460	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanum</i>		2013/471	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	

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wc johnstoneanum #1		<i>johnstoneanu</i>		2013/427	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/402	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/489	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/451	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/294	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/324	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/375	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #1		<i>johnstoneanu</i>		2013/358	NAPE#024		wc, Nagaland-Araunchal Pradesh (& adjacent Bhutan), 8500-9000'	
wc johnstoneanum #2		<i>johnstoneanu</i>		1990/070	KW#12585		wc, 1935, Tibet, Assam-Himalaya Frontier Tract Expedition	
wc johnstoneanum #3		<i>johnstoneanu</i>		2015/215	KW#7732			
wc johnstoneanum #4		<i>johnstoneanu</i>		19832095	KWA	5	India: Assam: Naga Hills: Japvo. On steep ridge leading to the summit and on the final cliff in deep shade. 2,743-3,048 m. Small bushy shrub.	
wc johnstoneanum #4		<i>johnstoneanu</i>		19870984	KWA	1	India: Assam: Naga Hills.: Japvo. On steep ridge leading to the summit and on the final cliff in deep shade. 2,743-3,048 m. Small bushy shrub.	
wc johnstoneanum #5		<i>johnstoneanu</i>			KW20305		KW20305 (PK33) at Pukeiti ex NZRA 1955.	
wc johnstoneanum #6		<i>johnstoneanu</i>			AC5532		Pukeiti also has AC5532 (PK47).	
wc kiangsiense #1		<i>kiangsiense</i>		2013/269	EN#			
wc kuomeianum #1		<i>kuomeianum</i>			SEH		wc, collected from type location	
wc leptocladon #1		<i>leptocladon</i>		1996/070	KR#2932		wc, 1994, Vietnam Expedition. Vietnam: Lào Cai Prov: Dèo Hoàng Liên Sơn, on the Phong Tho Road	
wc leptocladon #1		<i>leptocladon</i>		1996/073	KR#2932		wc, 1994, Vietnam Expedition	
wc leptocladon #1		<i>leptocladon</i>		1996/072	KR#2932		wc, 1994, Vietnam Expedition	
wc leptocladon #1		<i>leptocladon</i>		1996/066	KR#2932		wc, 1994, Vietnam Expedition	
wc leptocladon #1		<i>leptocladon</i>		1996/068	KR#2932		wc, 1994, Vietnam Expedition	
wc leptocladon #2		<i>leptocladon</i>		2005/035	HWJ#99688			
wc leptocladon #2		<i>leptocladon</i>		2005/076	HWJ#99688			
wc leptocladon #2		<i>leptocladon</i>		2005/068	HWJ#99688			
wc leptocladon #2		<i>leptocladon</i>		2005/054	HWJ#99688			
wc leptocladon #2		<i>leptocladon</i>		2005/011	HWJ#99688			
wc leptocladon #3		<i>leptocladon</i>		2016/150	PZVN#13-075		wc, Vietnam	
wc leptocladon #3		<i>leptocladon</i>		2016/233	PZVN#13-075		wc, Vietnam	

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wc leptocladon #3		<i>leptocladon</i>		2016/103	PZVN#13-075		wc, Vietnam	
wc leptocladon #3		<i>leptocladon</i>		2016/114	PZVN#13-075		wc, Vietnam	
wc leptocladon #3		<i>leptocladon</i>		2016/208	PZVN#13-075		wc, Vietnam	
wc leptocladon #3		<i>leptocladon</i>		2016/168	PZVN#13-075		wc, Vietnam	
wc leptocladon #3		<i>leptocladon</i>		2016/096	PZVN#13-075		wc, Vietnam	
wc leptocladon #4?		<i>leptocladon</i>		2015-1398	VIET 188		Vietnam	
wc leptocladon #5?		<i>leptocladon</i>		2015-657	VIET 31		Vietnam	
wc leptocladon #6		<i>leptocladon</i>			BDM1345		Pictured at DBG (The Rhododendron 2013, p41). DBG has BDM1345, HP P. Cox.	
wc levinei #1		<i>levinei</i>		2013/006	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/014	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/018	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/024	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/036	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/040	CGG#14162			
wc levinei #1		<i>levinei</i>		2013/001	CGG#14162			
wc levinei #2		<i>levinei</i>		2002/006			wc	
wc levinei #4		<i>levinei</i>		12239		1	Royal Horticultural Society seed exchange 2003 #02214, A Clark (AC5128). Sown 26/4/03. Needs verification	
wc levinei #1		<i>levinei</i>		2014-0441	CGG.14162	1	CHN: 3200 m	
wc levinei #3		<i>levinei</i>	aff.	2013/229	TH#2805			
wc levinei #3		<i>levinei</i>	aff.	2013/244	TH#2805			
wc levinei #3		<i>levinei</i>	aff.	2013/267	TH#2805			
wc liliiflorum #1		<i>liliiflorum</i>		2005/166	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/233	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/223	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/175	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/269	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/262	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/208	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/211	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/268	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/214	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/170	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/186	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2015/251	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/250	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #1		<i>liliiflorum</i>		2005/236	PW#116		wc, spring 2003, Guizhou, China	
wc liliiflorum #2		<i>liliiflorum</i>		2012/052	CGG#14066			
wc liliiflorum #2		<i>liliiflorum</i>		2012/072	CGG#14066			
wc liliiflorum #2		<i>liliiflorum</i>		2012/063	CGG#14066			
wc liliiflorum #2		<i>liliiflorum</i>		2012/104	CGG#14066			

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc liliiflorum #2		<i>liliiflorum</i>		2012/036	CGG#14066			
wc liliiflorum #3		<i>liliiflorum</i>		1998/001	ex. Guiz#163			
wc liliiflorum #3		<i>liliiflorum</i>		19911969	GUI#163	1	China: Guizhou: 1,500 m.	
wc liliiflorum #3		<i>liliiflorum</i>		19861179	GUI#163	1	China: Guizhou: On boulders on steep rocky slopes in forest. 1,500 m. Shrub of up to 1.5 m. Scarce.	
wc liliiflorum #3		<i>liliiflorum</i>			Guiz163		Offered for sale by BLM before 1999 (Gaddum 1999). Guiz163 held in collection 200, ex GDK.	
wc liliiflorum #4	dead	<i>liliiflorum</i>		19861177	GUI#75	0	China: Guizhou: 1,000-1,200 m.	
wc liliiflorum #5		<i>liliiflorum</i>		20140724	COX	3	China: Fan Jing Shan Summit ridge.	
wc liliiflorum #6		<i>liliiflorum</i>		04323		1	Ex. T.L.	
wc liliiflorum #6		<i>liliiflorum</i>		04324		1	Ex. T.L.	
wc liliiflorum #1		<i>liliiflorum</i>		2006-0211	PW 116	1	Guizhou Province, not listed	
wc liliiflorum #7		<i>liliiflorum</i>		2021-0619	NN0958	1	Guizhou Province, SW Guizhou, 1850 m	
wc lindleyi #1		<i>lindleyi</i>		2007/252	AC#5308		wc, 2004, Chander to Thungri, W Kameng, Arunachal Pradesh, India, mean alt. 3100m	
wc lindleyi #1		<i>lindleyi</i>		2007/305	AC#5308		wc, 2004, Chander to Thungri, W Kameng, Arunachal Pradesh, India, mean alt. 3100m	
wc lindleyi #1		<i>lindleyi</i>		2007/235	AC#5308		wc, 2004, Chander to Thungri, W Kameng, Arunachal Pradesh, India, mean alt. 3100m	
wc lindleyi #10		<i>lindleyi</i>			KW8546		KW8546 ex Gwavas (PK28)	
wc lindleyi #11	dead	<i>lindleyi</i>			KR8635	0	R. lindleyi KR8635 offered for sale in 2012 (PPM2012).	
wc lindleyi #12	dead	<i>lindleyi</i>			RCM90107?	0	PK used to have RCM90107, accessioned 1990, M9.	
wc lindleyi #2		<i>lindleyi</i>		2013/230	HECC#10023			
wc lindleyi #2		<i>lindleyi</i>		2013/216	HECC#10023			
wc lindleyi #3		<i>lindleyi</i>		2000/253	BB#8840			
wc lindleyi #4		<i>lindleyi</i>		2001/191	SEH#534		wc, 1997, Sikkim Himalaya, India, 2700m	
wc lindleyi #4		<i>lindleyi</i>		2001/174	SEH#534		wc, 1997, Sikkim Himalaya, India, 2700m	
wc lindleyi #4		<i>lindleyi</i>		2001/239	SEH#534		wc, 1997, Sikkim Himalaya, India, 2700m	
wc lindleyi #4		<i>lindleyi</i>		2001/221	SEH#534		wc, 1997, Sikkim Himalaya, India, 2700m	
wc lindleyi #5		<i>lindleyi</i>		2008/022	KR#8074		wc, 2005, W. Kameng district, Arunachal Pradesh, India, 3020m	
wc lindleyi #5		<i>lindleyi</i>		2008/100	KR#8074		wc, 2005, W. Kameng district, Arunachal Pradesh, India, 3020m	
wc lindleyi #5		<i>lindleyi</i>		2008/067	KR#8074		wc, 2005, W. Kameng district, Arunachal Pradesh, India, 3020m	
wc lindleyi #6		<i>lindleyi</i>		1978/067	LS&T#6562		wc, 1938, SE Tibet Expedition	
wc lindleyi #7		<i>lindleyi</i>		2011/096	GR#0822		wc, Chandar/Tongri, Arunachal Pradesh, India	
wc lindleyi #9?		<i>lindleyi</i>		19803104	COH	1	India: Arunachal Pradesh: Subansiri Div.: Ridge SE of Api Tani Valley. 2,500-2,650 m.	
wc lindleyi #8?		<i>lindleyi</i>	aff.	19771142		1	India.	
wc ludwigianum #1		<i>ludwigianum</i>		2004/065			wc, Doi Ang Kang, (Limestone mountain) Chiangmai, Thailand, 1800m	
wc ludwigianum #1		<i>ludwigianum</i>		2004/048			wc, Doi Ang Kang, (Limestone mountain) Chiangmai, Thailand, 1800m	



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wc ludwigianum #1		<i>ludwigianum</i>		2004/030			wc, Doi Ang Kang, (Limestone mountain) Chiangmai, Thailand, 1800m	
wc ludwigianum #1		<i>ludwigianum</i>					Imported by Pukeiti in 1985 from Greer Gardens USA (NZRA bulletin 1986 p64). Pukeiti has ws Doi Ang Kang, Thailand (PK43)	
wc ludwigianum #2		<i>ludwigianum</i>		19631492	SMN	3	Thailand: Chiang Mai: Doi Chiengdo (Doi Chiang Dao). 2,000 m.	
wc ludwigianum #2		<i>ludwigianum</i>		19850478	SMN	3	Thailand: Chiang Mai: Doi Chiang Dao. On limestone, barren rocks. 2,000 m.	
wc ludwigianum #3		<i>ludwigianum</i>		01352		1	Ex. Thailand 1318172	
wc ludwigianum #4		<i>ludwigianum</i>		12236		1	John Rouse collection, collected by Peter Valder, Thailand 1975? Cutting 19/2/06	
wc lyi #1		<i>lyi</i>		1996/060	KR#2962		wc, 1994, Vietnam Expedition	
wc lyi #1?		<i>lyi</i>		1998/010	KR#269(?)			
wc lyi #2		<i>lyi</i>		2015/034	FMWJ#13042		wc, N Vietnam	
wc lyi #2		<i>lyi</i>		2015/018	FMWJ#13042		wc, N Vietnam	
wc lyi #2		<i>lyi</i>		2015/049	FMWJ#13042		wc, N Vietnam	
wc lyi #3		<i>lyi</i>		2001/152	Valder#19			
wc lyi #3		<i>lyi</i>		2001/146	Valder#		wc, Vietnam (? probably Thailand - SEH)	
wc lyi #4		<i>lyi</i>		2017/073	SEH#27010			
wc lyi #4		<i>lyi</i>		2017/064	SEH#27010			
wc lyi #5		<i>lyi</i>		1981/125	PGV#19			
wc lyi #6?		<i>lyi</i>		1963-23402		7	Thailand	
wc maddenii ssp. maddenii #1		<i>maddenii</i>		2011/156	NVD#19		wc, N Vietnam, 2323m	
wc maddenii ssp. maddenii #1		<i>maddenii</i>		2011/120	NVD#19		wc, N Vietnam, 2323m	
wc maddenii ssp. maddenii #1		<i>maddenii</i>		2011/144	NVD#19		wc, N Vietnam, 2323m	
wc maddenii ssp. maddenii #10		<i>maddenii</i>		19872083	BSL	1	Bhutan: Tashigang Dist.: Gamri Chu. 2,591 m.	
wc maddenii ssp. maddenii #11		<i>maddenii</i>		19942904	BSL	2	Bhutan: West side of Pele La.	
wc maddenii ssp. maddenii #12		<i>maddenii</i>		19831844	HED	1	Bhutan: Thimphu Dist.: Near Chapcha. 2,500 m.	27°10' N, 89°33' E
wc maddenii ssp. maddenii #13		<i>maddenii</i>		19872103	BSL	4	Bhutan: Bhutan, E: S of Kaling. 2,286 m.	
wc maddenii ssp. maddenii #19		<i>maddenii</i>		2017-1415	VIET 458	1	Vietnam	
wc maddenii ssp. maddenii #19		<i>maddenii</i>		2017-1432	VIET 458	1	Vietnam	
wc maddenii ssp. maddenii #19		<i>maddenii</i>		2017-496	VIET 458	5	Vietnam	
wc maddenii ssp. maddenii #19		<i>maddenii</i>		2017-497	VIET 458	5	Vietnam	
wc maddenii ssp. maddenii #19		<i>maddenii</i>		2017-518	VIET 458	5	Vietnam	
wc maddenii ssp. maddenii #2		<i>maddenii</i>		2005/237	NAPE#109		wc, 10-2-2003, Tom Hill, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8400'	
wc maddenii ssp. maddenii #2		<i>maddenii</i>			NAPE109			
wc maddenii ssp. maddenii #20		<i>maddenii</i>		2015-1732	VIET 192		Vietnam	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc maddenii ssp. maddenii #21		<i>maddenii</i>		00504		1	Wada, Bhutan	
wc maddenii ssp. maddenii #22	dead	<i>maddenii</i>		01337		0	T.L. Sikkim 72/30	
wc maddenii ssp. maddenii #22		<i>maddenii</i>		01338		1	T.L. Sikkim 72/30	
wc maddenii ssp. maddenii #23?		<i>maddenii</i>		01657		1	Ex. Wada Bhutan 1977	
wc maddenii ssp. maddenii #23?		<i>maddenii</i>		01658		1	Ex. Wada Bhutan 1977	
wc maddenii ssp. maddenii #23?		<i>maddenii</i>		01659		1	Ex. Wada Bhutan 1977	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06376		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06377		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06378		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06379		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06380		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06381		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06382		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06383		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06384		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06385		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06386		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06387		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06388		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06389		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #25		<i>maddenii</i>		06390		1	RS 1659 Wada's Pink	
wc maddenii ssp. maddenii #26		<i>maddenii</i>			TH237			
wc maddenii ssp. maddenii #27		<i>maddenii</i>			SD1104			
wc maddenii ssp. maddenii #28?		<i>maddenii</i>			Burma Road		at Heritage Park.	
wc maddenii ssp. maddenii #29	dead	<i>maddenii</i>			KW21005	0	1954: NZRA received seed of <i>R. polyandrum</i> KW21005	
wc maddenii ssp. maddenii #3		<i>maddenii</i>		2005/220	KC#0108A&B		wc, October 2001, Arunachal Pradesh, India	
wc maddenii ssp. maddenii #3		<i>maddenii</i>		2005/263	KC#0108A&B		wc, October 2001, Arunachal Pradesh, India	
wc maddenii ssp. maddenii #3	dead	<i>maddenii</i>		2006-0214	KC 108	0	Arunachal Pradesh, not listed	
wc maddenii ssp. maddenii #3		<i>maddenii</i>			KC0108			
wc maddenii ssp. maddenii #4		<i>maddenii</i>		2006/393	KCSH#0345		wc, 10-11-2003, back to the Se La, Arunachal Pradesh, 9000'	
wc maddenii ssp. maddenii #6	dead	<i>maddenii</i>		2006-0215	KCSH 388	0	Arunachal Pradesh, not listed	
wc maddenii ssp. maddenii #8		<i>maddenii</i>		20161203	LGCKH	6	Vietnam: Lao Cai: Treck up Y Ty Mnt from Nhiu Co San Village past camps 1 & 2 to summit returning via camps to Nhiu Co San Village. 1,983m	22°36' 42.48" N, 103°37' 26.94" E
wc maddenii ssp. maddenii #9		<i>maddenii</i>		20141093	PRL	3	India: Sikkim.	
wc maddenii ssp. maddenii #9		<i>maddenii</i>		19870430	PRL	2	India: Sikkim.	
wc maddenii ssp. crassum #1		<i>maddenii</i>	ssp. <i>crassum</i>	2011/054	DJHV#8163		wc, Vietnam & Sichuan, China	
wc maddenii ssp. crassum #1		<i>maddenii</i>	ssp. <i>crassum</i>	2011/041	DJHV#8163		wc, Vietnam & Sichuan, China	

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wc maddenii ssp. crassum #1		<i>maddenii</i>	ssp. <i>crassum</i>	2013/049	DJHV#8163		wc, Vietnam & Sichuan, China	
wc maddenii ssp. crassum #1		<i>maddenii</i>	ssp. <i>crassum</i>	2011/067	DJHV#8163		wc, Vietnam & Sichuan, China	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	1996/048	KR#2978		wc, 1994, Vietnam Expedition	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	09788		1	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	09789		1	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #11		<i>maddenii</i>	ssp. <i>crassum</i>	1996/027	KR#3116		wc, 1994, Vietnam Expedition	
wc maddenii ssp. crassum #11		<i>maddenii</i>	ssp. <i>crassum</i>	2000-0472	KR.3116	1	Yunnan Province, ne Yunnan, 2800 m	
wc maddenii ssp. crassum #12		<i>maddenii</i>	ssp. <i>crassum</i>	20092025		1		
wc maddenii ssp. crassum #2		<i>maddenii</i>	ssp. <i>crassum</i>	1999/544	CCHH#8217		wc, 10-12-97, Cangshan, Yunnan, China, 2650m	
wc maddenii ssp. crassum #2		<i>maddenii</i>	ssp. <i>crassum</i>	1999/631	CCHH#8217		wc, 10-12-97, Cangshan, Yunnan, China, 2650m	
wc maddenii ssp. crassum #2	dead	<i>maddenii</i>	ssp. <i>crassum</i>	2000-0627	CCHH.8217	0	Yunnan Province, Cangshan	
wc maddenii ssp. crassum #26		<i>maddenii</i>	ssp. <i>crassum</i>	1958-32204	KWRD 21005	1		
wc maddenii ssp. crassum #27		<i>maddenii</i>	ssp. <i>crassum</i>	2015-1375	VIET 168	2	Vietnam	
wc maddenii ssp. crassum #27		<i>maddenii</i>	ssp. <i>crassum</i>	2017-1417	VIET 168	5	Vietnam	
wc maddenii ssp. crassum #27		<i>maddenii</i>	ssp. <i>crassum</i>	2017-498	VIET 168	9	Vietnam	
wc maddenii ssp. crassum #27		<i>maddenii</i>	ssp. <i>crassum</i>	2017-514	VIET 168	3	Vietnam	
wc maddenii ssp. crassum #27		<i>maddenii</i>	ssp. <i>crassum</i>	2017-1588	VIET 168	5	Vietnam	
wc maddenii ssp. crassum #29		<i>maddenii</i>	ssp. <i>crassum</i>	17425	Rhododendron-Park Bremen 2009/09	1	Japfu Peak, Nagaland, IN,2850m	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>	2007/253	NAPE#025		wc, 9-19-2003, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8500'	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>	2007/236	NAPE#025		wc, 9-19-2003, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8500'	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>	2007/306	NAPE#025		wc, 9-19-2003, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8500'	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>	2007/337	NAPE#025		wc, 9-19-2003, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8500'	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>	2007/273	NAPE#025		wc, 9-19-2003, Nagaland-Araunchal Pradesh (& adjacent Bhutan) Expedition, 8500'	
wc maddenii ssp. crassum #31		<i>maddenii</i>	ssp. <i>crassum</i>	2000-0574	HWJ.99559	3	Lao Cai, Sa Pa, Phan Xi Păng (Fansipan), 2050 m	
wc maddenii ssp. crassum #32		<i>maddenii</i>	ssp. <i>crassum</i>	2005-0275	PW.153	2	Lao Cai, Sa Pa, Phan Xi Păng (Fansipan), 2890 m	
wc maddenii ssp. crassum #32	dead	<i>maddenii</i>	ssp. <i>crassum</i>	2013-0136	PW.153	0	Lao Cai, Sa Pa, Phan Xi Păng (Fansipan)	
wc maddenii ssp. crassum #33	dead	<i>maddenii</i>	ssp. <i>crassum</i>	2009-0216	NVD.0719	0	Lao Cai, Sa Pa, 2323 m	

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wc maddenii ssp. crassum #34?		<i>maddenii</i>	ssp. <i>crassum</i>	2013-0286	NA	2	NA	
wc maddenii ssp. crassum #4		<i>maddenii</i>	ssp. <i>crassum</i>	2014/032	DJHV#8146		wc, Vietnam & Sichuan, China	
wc maddenii ssp. crassum #5		<i>maddenii</i>	ssp. <i>crassum</i>	2007/080	GR#0407			
wc maddenii ssp. crassum #6		<i>maddenii</i>	ssp. <i>crassum</i>	1994/378			wc, Yunnan, China, 2800m	
wc maddenii ssp. crassum #7		<i>maddenii</i>	ssp. <i>crassum</i>	2009/017	BASE#9539		wc, 5-21-00, up from Gongshan on new road to Dulong Valley, Salween, China, 2690m	27° 45' 47, 98° 35' 39
wc maddenii ssp. crassum #7		<i>maddenii</i>	ssp. <i>crassum</i>	2009/008	BASE#9539		wc, 5-21-00, up from Gongshan on new road to Dulong Valley, Salween, China, 2690m	27° 45' 47, 98° 35' 39
wc maddenii ssp. crassum #8		<i>maddenii</i>	ssp. <i>crassum</i>	2009/054	DJHVM #104		wc, 10-06, N Vietnam	
wc maddenii ssp. crassum #8		<i>maddenii</i>	ssp. <i>crassum</i>	2010/005	DJHVM #104		wc, 10-06, N Vietnam	
wc maddenii ssp. crassum #8		<i>maddenii</i>	ssp. <i>crassum</i>	2010/013	DJHVM #104		wc, 10-06, N Vietnam	
wc maddenii ssp. crassum #8		<i>maddenii</i>	ssp. <i>crassum</i>	2010/021	DJHVM #104		wc, 10-06, N Vietnam	
wc maddenii ssp. crassum #8		<i>maddenii</i>	ssp. <i>crassum</i>	2009/090	DJHVM #104		wc, 10-06, N Vietnam	
wc maddenii ssp. crassum #9		<i>maddenii</i>	ssp. <i>crassum</i>	2002/163			wc, Cang Shan, 9000'	
wc maddenii ssp. crassum #9		<i>maddenii</i>	ssp. <i>crassum</i>	2002/165			wc, Cang Shan, 9000'	
wc maddenii ssp. crassum #28		<i>maddenii</i>	ssp. <i>crassum</i> ( <i>R. manipurens</i> )	1978-6210	KWRD 7136	5		
wc maddenii ssp. maddenii #5		<i>maddenii</i>	ssp. <i>maddenii</i>	2001/222	SEH#599		wc, 1997, Sikkim Himalaya, India, 1690m	
wc maddenii ssp. maddenii #5		<i>maddenii</i>	ssp. <i>maddenii</i>	2001/175	SEH#599		wc, 1997, Sikkim Himalaya, India, 1690m	
wc maddenii ssp. maddenii #5		<i>maddenii</i>	ssp. <i>maddenii</i>	2001/232	SEH#599		wc, 1997, Sikkim Himalaya, India, 1690m	
wc maddenii ssp. maddenii #6		<i>maddenii</i>	ssp. <i>maddenii</i>	2006/153	KCSH#0388		wc, 10-15-2003, around Tawang and back to Dirang, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8750'	
wc maddenii ssp. maddenii #6		<i>maddenii</i>	ssp. <i>maddenii</i>	2006/059	KCSH#0388		wc, 10-15-2003, around Tawang and back to Dirang, Arunachal Pradesh, Nagaland-Araunchal Pradesh Expedition, 8750'	
wc maddenii ssp. maddenii #7		<i>maddenii</i>	ssp. <i>maddenii</i>	1979/014			wc, Sikkim	
wc maddenii ssp. maddenii #24		<i>maddenii</i>	( <i>R. callophyllum</i> )	02970		1	C.W. India T.L. 1977	
wc maddenii ssp. crassum #10	dead	<i>maddenii</i>	ssp. <i>crassum</i>	09787		0	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	09790		1	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	09791		1	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #10		<i>maddenii</i>	ssp. <i>crassum</i>	09792		1	K.R.2978, Madd. Wlk, sth bank	
wc maddenii ssp. crassum #13		<i>maddenii</i>	ssp. <i>crassum</i>	20141091	YTT	1	China: Yunnan: Kiuchiang valley. 1,600 m.	
wc maddenii ssp. crassum #13		<i>maddenii</i>	ssp. <i>crassum</i>	20141084	YTT	2	China: Yunnan: Kiuchiang valley. 1,600 m.	
wc maddenii ssp. crassum #13		<i>maddenii</i>	ssp. <i>crassum</i>	19391048	YTT	1	China: Yunnan.	
wc maddenii ssp. crassum #13		<i>maddenii</i>	ssp. <i>crassum</i>	19391033	YTT	16	China: Yunnan: Kiuchiang valley. 1,600 m.	
wc maddenii ssp. crassum #14		<i>maddenii</i>	ssp. <i>crassum</i>	19662449		1	Myanmar: Sagaing Division: Mann Gale, Mt. Saramati. 600 m.	25°44' N, 95°3' E
wc maddenii ssp. crassum #15		<i>maddenii</i>	ssp. <i>crassum</i>	19754044	LST	2	China: Xizang (Tibet) Aut. Reg.: Le. 2,350 m.	
wc maddenii ssp. crassum #15		<i>maddenii</i>	ssp. <i>crassum</i>	20141081	LST	3	China: Xizang (Tibet) Aut. Reg.: Le. 2,350 m.	
wc maddenii ssp. crassum #16		<i>maddenii</i>	ssp. <i>crassum</i>	19772713	FOR	10	China: Yunnan, W: Mekong Salween divide. 3,050-3,350 m. 27°N, 99°2'E.	27° N, 99°2' E
wc maddenii ssp. crassum #17		<i>maddenii</i>	ssp. <i>crassum</i>	20141088	FOR	1	China: Yunnan. An unusual variant with white, petaloid calyx. [Locality not able to be traced].	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc maddenii ssp. crassum #17		<i>maddenii</i>	ssp. <i>crassum</i>	19321024	FOR	4	China: Yunnan. An unusual variant with white, petaloid calyx. [Locality not able to be traced].	
wc maddenii ssp. crassum #18		<i>maddenii</i>	ssp. <i>crassum</i>	19951908	RUS	6	Vietnam: Lào Cai: Sapa, Fan Si Pan, NE ridge above the village of Sin Chay. 2,280 m.	
wc maddenii ssp. crassum #19		<i>maddenii</i>	ssp. <i>crassum</i>	19300234	FOR	1	China: Yunnan. [Herbarium source traced, no field notes with specimen].	
wc maddenii ssp. crassum #20		<i>maddenii</i>	ssp. <i>crassum</i>	19772716	FOR	2	China: Yunnan, W: Baoshan Pref.: Shweli-Salween divide. 2,600 m.	25°40' N, 98°45' E
wc maddenii ssp. crassum #21		<i>maddenii</i>	ssp. <i>crassum</i>	19832535	KWA	13	India: Arunachal Pradesh: Di Chu Valley. Grows socially in thickets or on boulders in the river bed, preferring shade. 2,438-2,743 m.	
wc maddenii ssp. crassum #22		<i>maddenii</i>	ssp. <i>crassum</i>	19941656	TRN	1	Vietnam: Lào Cai: Sapa, Fan Si Pan. 2,987 m.	
wc maddenii ssp. crassum #23		<i>maddenii</i>	ssp. <i>crassum</i>	19772715	FOR	1	China: Xizang (Tibet) Aut. Reg.: Salween-Kiuchiang divide. 2,750 m.	
wc maddenii ssp. crassum #23		<i>maddenii</i>	ssp. <i>crassum</i>	19832494	FOR	1	China: Xizang (Tibet) Aut. Reg.: Salween-Kiuchiang divide. 2,750 m.	
wc maddenii ssp. crassum #24		<i>maddenii</i>	ssp. <i>crassum</i>	19491022	ROC	4	China: Xizang (Tibet) Aut. Reg. - Yunnan border.	
wc maddenii ssp. crassum #25		<i>maddenii</i>	ssp. <i>crassum</i>	19763208	FOR	8	China: Yunnan, W: Shweli-Salween divide. 3,050 m.	
wc maddenii ssp. crassum #3		<i>maddenii</i>	ssp. <i>crassum</i>		NAPE025		NAPE025 (PK59) at Pukeiti.	
wc maddenii ssp. crassum #30		<i>maddenii</i>	ssp. <i>crassum</i>	17413	JN 11082	1	W C Yunnan, CN,2800m	
wc maddenii ssp. crassum #35		<i>maddenii</i>	ssp. <i>crassum</i>		TH268?		TH268 (OM14) (crassum?) is sold as Spiced Ice. Vietnam	
wc maddenii ssp. crassum #36?		<i>maddenii</i>	ssp. <i>crassum</i>		DT 98		Sue: a Dayal Thomson collection from 1998. It may have been obtained through Brent Murdoch, check the catalogues	
wc maddenii ssp. crassum #37?		<i>maddenii</i>	ssp. <i>crassum</i>				R. maddenii ssp. crassum as R. manipurensis (wc?) is "poss Nth Vietnam"	
wc maddenii ssp. crassum #38		<i>maddenii</i>	ssp. <i>crassum</i>		JN1058?		DBG spreadsheet	
wc maddenii ssp. crassum #39	dead	<i>maddenii</i>	ssp. <i>crassum</i>		KW20839	0	R. crassum KW20839 (big form) imported by Pukeiti from Achamore House, Isle of Gigha, UK, in 1971 (Pukeiti archive, Imports 1971) but is now dead.	
wc maddenii ssp. crassum #40		<i>maddenii</i>	ssp. <i>crassum</i>		DT 43	2	Wild collected by Doug Thomson 1996 Yunnan	
wc maddenii ssp. maddenii #14		<i>maddenii</i>	ssp. <i>maddenii</i>	19715035	LSE	3	China: Xizang (Tibet) Aut. Reg.: Tsakohugong, Tsangpo Gorge. 2,000 m.	
wc maddenii ssp. maddenii #15		<i>maddenii</i>	ssp. <i>maddenii</i>	19150028	COO	4	Bhutan: Thimphu Dist.: Chapcha. 6,000 ft. 27°13'N, 89°33'E. Sparse, straggly bush; underleaf copper.	27°13' N, 89°33' E
wc maddenii ssp. maddenii #16		<i>maddenii</i>	ssp. <i>maddenii</i>	20141090	LST	1	Bhutan: Tashigang Dist.: Jiri Chu. Rhododendron arboreum/Quercus forest. 6,500 ft. 27°13'N, 91°31'E. Shrub 4-10 ft.	27°13' N, 91°31' E
wc maddenii ssp. maddenii #16		<i>maddenii</i>	ssp. <i>maddenii</i>	19754068	LST	8	Bhutan: Tashigang Dist.: Jiri Chu. Rhododendron arboreum/Quercus forest. 6,500 ft. 27°13'N, 91°31'E. Shrub 4-10 ft.	27°13' N, 91°31' E
wc maddenii ssp. maddenii #17		<i>maddenii</i>	ssp. <i>maddenii</i>	19141003	BAI	2	China: Xizang (Tibet) Aut. Reg.: Upper Nyamsang Valley. 2,450 m.	
wc maddenii ssp. maddenii #18		<i>maddenii</i>	ssp. <i>maddenii</i>	19730904	COH	3	India: Arunachal Pradesh: Subansiri Div., SE of Ziro.	
wc megacalyx #1		<i>megacalyx</i>		2005/212	BASE#9544		wc, 5-21-2000, up from Gongshan on new road to Dulong Valley, 27° 45' 47, 98° 35' 39, Salween, China 2280m	27° 45' 47, 98° 35' 39

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc megacalyx #1		<i>megacalyx</i>		2005/152	BASE#9544		wc, 5-21-2000, up from Gongshan on new road to Dulong Valley, 27° 45' 47, 98° 35' 39, Salween, China 2280m	27° 45' 47, 98° 35' 39
wc megacalyx #1		<i>megacalyx</i>		2005/243	BASE#9544		wc, 5-21-2000, up from Gongshan on new road to Dulong Valley, 27° 45' 47, 98° 35' 39, Salween, China 2280m	27° 45' 47, 98° 35' 39
wc megacalyx #2		<i>megacalyx</i>		2002/009	CCHH#8076		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc megacalyx #2		<i>megacalyx</i>		2002/016	CCHH#8076		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc megacalyx #2		<i>megacalyx</i>		2000/020	CCHH#8076		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc megacalyx #2		<i>megacalyx</i>		2000/019	CCHH#8076		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc megacalyx #3		<i>megacalyx</i>		2006/304	DGEY#026		wc, 9-27-01, along new Dulong road from Gongshan to Kongdan (Nu Jiang side), NW Yunnan, China, N27 45.540', E098 34.565', 2600m	N27 45.540', E098 34.565'
wc megacalyx #3		<i>megacalyx</i>		2006/254	DGEY#026		wc, 9-27-01, along new Dulong road from Gongshan to Kongdan (Nu Jiang side), NW Yunnan, China, N27 45.540', E098 34.565', 2600m	N27 45.540', E098 34.565'
wc megacalyx #3		<i>megacalyx</i>		2006/352	DGEY#026		wc, 9-27-01, along new Dulong road from Gongshan to Kongdan (Nu Jiang side), NW Yunnan, China, N27 45.540', E098 34.565', 2600m	N27 45.540', E098 34.565'
wc megacalyx #4		<i>megacalyx</i>		2005/238	BASE#9532		wc, 5-21-2000, up from Gongshan on new road to Dulong Valley, 27° 45' 47, 98° 35' 39, Salween, China 2500m	27° 45' 47, 98° 35' 39
wc megacalyx #4		<i>megacalyx</i>		2005/219	BASE#9532		wc, 5-21-2000, up from Gongshan on new road to Dulong Valley, 27° 45' 47, 98° 35' 39, Salween, China 2500m	27° 45' 47, 98° 35' 39
wc megacalyx #5		<i>megacalyx</i>		1980/134	KW#20836		wc, 1953, The Triangle Expedition, N Burma	
wc mianningense #1		<i>mianningense</i>		17408	JN 12300	1	Mianning, Sichuan, CN, 4050m	
wc nuttallii #1		<i>nuttallii</i>		2004/349	DGEY#079		wc, 9-30 to 10-2-01, track along Dulong Jiang north of Kongdan, NW Yunnan, China, 1850m	N28 04.017', E098 20.002'
wc nuttallii #1		<i>nuttallii</i>		2004/374	DGEY#079		wc, 9-30 to 10-2-01, track along Dulong Jiang north of Kongdan, NW Yunnan, China, 1850m	N28 04.017', E098 20.002'
wc nuttallii #10		<i>nuttallii</i>		20042030	GLGS2	5	China: Yunnan: Gongshan: Zizhixian: E side of the Dulong Jiang near and on cliff to the S of Bailai village ca. 7.4 direct km S of Dizhengdang (Lengdang) and ca. 15 direct km N of Kongdang. 1,620 m. Undisturbed.	28°0' 35.5" N, 98°19' 24.2" E
wc nuttallii #11		<i>nuttallii</i>		20092021		2		
wc nuttallii #12		<i>nuttallii</i>		19941669	TRN	3	Vietnam: Lào Cai: Sapa, Fan Si Pan. 2,498 m.	
wc nuttallii #13		<i>nuttallii</i>		2015-630	VIET 3	2	Vietnam	
wc nuttallii #13		<i>nuttallii</i>		2017-1054	VIET 3	3	Vietnam	
wc nuttallii #13		<i>nuttallii</i>		2017-630	VIET 3	7	Vietnam	
wc nuttallii #13		<i>nuttallii</i>		2017-631	VIET 3	13	Vietnam	
wc nuttallii #13		<i>nuttallii</i>		2017-525	VIET 3	8	Vietnam	
wc nuttallii #14		<i>nuttallii</i>		2009-0217	NVD.0715	1	Sa Pa	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc nuttallii #15	dead	<i>nuttallii</i>		2019-0155	KR11277	0	Upper Dibang District, Anini District, drive from Anini (28 47' 38.8" N, 95 54' 15.0" E, 1657m) via station 35 (just inside the Mipi Mithun fencing - 28 53' 25.3" N, 95 50' 00.2" E, 1478m), to Mipi (28 57' 01.5" N, 95 48' 51.5" E, 1534m) to Mipi 2	
wc nuttallii #16?		<i>nuttallii</i>					China ex ARS at Pukeiti (PK60)	
wc nuttallii #17?		<i>nuttallii</i>					OM-50 – Hudson ex Vietnam	
wc nuttallii #18	dead	<i>nuttallii</i>			AC435	0	R. nuttallii AC435 offered for sale in 1999 (PPM1999).	
wc nuttallii #19	dead	<i>nuttallii</i>			TH1419	0	R. nuttallii TH1419 offered for sale in 2001 (PPM2001).	
wc nuttallii #2		<i>nuttallii</i>		2001/315	CCHH#8077		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc nuttallii #2		<i>nuttallii</i>		2001/289	CCHH#8077		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc nuttallii #2		<i>nuttallii</i>		2001/267	CCHH#8077		wc, 9-27-97, Biluoxueshan, up from Fugong, Yunnan, China, 2000m	
wc nuttallii #2		<i>nuttallii</i>		20040721	CCHH	1	China: Biluo xue shan above Fugong. Cliff side. 2,000 m.	
wc nuttallii #3		<i>nuttallii</i>		2017/075	HECC#10005			
wc nuttallii #3		<i>nuttallii</i>		2017/080	HECC#10005			
wc nuttallii #3		<i>nuttallii</i>		2017/091	HECC#10005			
wc nuttallii #3	dead	<i>nuttallii</i>			Cox10005	0	R. nuttallii Cox 10005 (ws, but does not say where) offered for sale in 2010 (PPM2010) – this plant dead now.	
wc nuttallii #4		<i>nuttallii</i>		2008/175	APA#009		wc, 10-11-05, ridge running S from Singa to Abroka, Arunachal Pradesh, India, (Arunachal Pradesh Abroka Expedition), 5000'	
wc nuttallii #4		<i>nuttallii</i>		2008/263	APA#009		wc, 10-11-05, ridge running S from Singa to Abroka, Arunachal Pradesh, India, (Arunachal Pradesh Abroka Expedition), 5000'	
wc nuttallii #4		<i>nuttallii</i>		2008/219	APA#009		wc, 10-11-05, ridge running S from Singa to Abroka, Arunachal Pradesh, India, (Arunachal Pradesh Abroka Expedition), 5000'	
wc nuttallii #5		<i>nuttallii</i>		2001/150	KW#?			
wc nuttallii #6		<i>nuttallii</i>		2007/338	CCHH#8104		wc, 10-2-97, Gongshan, Yunnan, China, 1900m	
wc nuttallii #6		<i>nuttallii</i>		2007/308	CCHH#8104		wc, 10-2-97, Gongshan, Yunnan, China, 1900m	
wc nuttallii #6		<i>nuttallii</i>		2007/275	CCHH#8104		wc, 10-2-97, Gongshan, Yunnan, China, 1900m	
wc nuttallii #6	dead	<i>nuttallii</i>			CCHH8104	0	DBR2001 offered for sale (BDM669 -ws P. Cox CCHH8104).	
wc nuttallii #7		<i>nuttallii</i>		1996/028	KR#3056		wc, 1994, Vietnam Expedition	
wc nuttallii #8		<i>nuttallii</i>	aff.	19951632	RUS	3	Vietnam: Lào Cai: Sapa, Ban Khoang Road. Bank near waterfall 2-3 km from Ban Khoang. 1,500 m. Shrub to 1m.	
wc nuttallii #9		<i>nuttallii</i>	aff.	20092023		2		
wc nuttallii #9		<i>nuttallii</i>	aff.	20092024		1		
wc pachypodum #1		<i>pachypodum</i>		2014/226	JN#11046		wc, Nov 2011, Cangshan, Yunnan, 2600m	
wc pachypodum #1		<i>pachypodum</i>		2014/172	JN#11046		wc, Nov 2011, Cangshan, Yunnan, 2600m	
wc pachypodum #1		<i>pachypodum</i>		2014/217	JN#11046		wc, Nov 2011, Cangshan, Yunnan, 2600m	
wc pachypodum #10	dead	<i>pachypodum</i>			K60 seed.	0	1990-1450e (seed ex China, Kew, K60) which was nursery in 1992.	
wc pachypodum #10	dead	<i>pachypodum</i>			RGY 003	0	1990-1450d (RGY003, Bublitz, Yunnan, seed) which was G28.	
wc pachypodum #2		<i>pachypodum</i>		1999/197	AC#1993		wc, 1995, China	
wc pachypodum #2		<i>pachypodum</i>		1999/149	AC#1993		wc, 1995, China	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc pachypodum #2		<i>pachypodum</i>		1999/175	AC#1933		wc, 1995, China	
wc pachypodum #2		<i>pachypodum</i>			AC1993	1	DBG has AC1993 ex DBR (DBG spreadsheet)	
wc pachypodum #3		<i>pachypodum</i>		1999/089			grown from 88ARS# 399 which is seed imported by RSF from Yunnan, China, wc, 3100m	
wc pachypodum #4		<i>pachypodum</i>		2002/168			wc, Cang Shan, 9000'	
wc pachypodum #5		<i>pachypodum</i>		1979-74	FORR 7516	9		
wc pachypodum #6	dead	<i>pachypodum</i>		03707		0	SBEC 0115 Ex. NS 299 UK	
wc pachypodum #6		<i>pachypodum</i>		03714		1	SBEC 0115 Ex. NS 358 UK	
wc pachypodum #6		<i>pachypodum</i>		03723		1	SBEC 0115	
wc pachypodum #6	dead	<i>pachypodum</i>		03724		0	SBEC 0115	
wc pachypodum #6	dead	<i>pachypodum</i>			SBEC0115	0	1980-1450 (Cox, SBEC0115, 8600ft China, seed) which was A10.	
wc pachypodum #7		<i>pachypodum</i>		17415	JN 11076	1	SW Yunnan, CN, 2800 m	
wc pachypodum #1	dead	<i>pachypodum</i>		2012-0164	JN11046	0	midwest Yunnan	
wc pachypodum #7	dead	<i>pachypodum</i>		2012-0165	JN11076	0	sw Yunnan	
wc pachypodum #8	dead	<i>pachypodum</i>		2004-0382	KR.7721	0	Dali, Cangshan	
wc pachypodum #9		<i>pachypodum</i>		2011-0559	MD.97	1	Kunming	
wc parryae #1		<i>parryae</i>			Fischer 146		PK got Fischer 146 from RBGE in 1972 (card file).	
wc pseudociliipes #1		<i>pseudociliipes</i>		2017/090	SEH#1534			
wc pseudociliipes #1		<i>pseudociliipes</i>		2017/082	SEH#1534			
wc pseudociliipes #2		<i>pseudociliipes</i>		2014/184	JN#11070		wc, Nov. 2011, Salween Region, W. Yunnan, China, 2800m	
wc pseudociliipes #2		<i>pseudociliipes</i>		2014/210	JN#11070		wc, Nov. 2011, Salween Region, W. Yunnan, China, 2800m	
wc pseudociliipes #2		<i>pseudociliipes</i>		2014/249	JN#11070		wc, Nov. 2011, Salween Region, W. Yunnan, China, 2800m	
wc pseudociliipes #2		<i>pseudociliipes</i>		17414	JN 11070	1	W Yunnan, CN, 2800 m	
wc pseudociliipes #3		<i>pseudociliipes</i>		2005/084	BASE#9697		wc, 6-11-2000, Ziben Shan, Biluoxue Shan, Salween, China, 2500m	
wc pseudociliipes #3		<i>pseudociliipes</i>		2005/098	BASE#9697		wc, 6-11-2000, Ziben Shan, Biluoxue Shan, Salween, China, 2500m	
wc pseudociliipes #3		<i>pseudociliipes</i>		2005/132	BASE#9697		wc, 6-11-2000, Ziben Shan, Biluoxue Shan, Salween, China, 2500m	
wc pseudociliipes #3		<i>pseudociliipes</i>		2005/147	BASE#9697		wc, 6-11-2000, Ziben Shan, Biluoxue Shan, Salween, China, 2500m	
wc pseudociliipes #3		<i>pseudociliipes</i>		2005/120	BASE#9697		wc, 6-11-2000, Ziben Shan, Biluoxue Shan, Salween, China, 2500m	
wc pseudomaddenii #1		<i>pseudomaddenii</i>		2017/072	HECC#10083			
wc pseudomaddenii #1		<i>pseudomaddenii</i>		2017/066	HECC#10083			
wc roseatum #1	dead	<i>roseatum</i>				0	Wild collected material imported in 1992 by L. Davies (NZRA bulletin 2001 p55). At Heritage Park (NZRA bulletin 2003 p40).	



Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc rufosquamosum #1		<i>rufosquamosum</i>	aff.	19962587	RUS	1	China: Yunnan: Mengzi, Li Hua Shan; by tin mines. Growing on cliff edge and in pockets in the karst limestone. ca 2,400 m. 23°21'N, 103°14'E. Shrub to 0.7 m; petioles bristly as in <i>barbatum</i> .	103°14' E, 23°21' N
wc scopulorum #1		<i>scopulorum</i>		2005/110	AC#3669		wc, 1997, Bayi	
wc scopulorum #1		<i>scopulorum</i>		2005/129	AC#3669		wc, 1997, Bayi	
wc scopulorum #1		<i>scopulorum</i>		2005/088	AC#3669		wc, 1997, Bayi	
wc scopulorum #1		<i>scopulorum</i>			AC3669		DBG has BDM 919(AC3669) and BDM1365 (DBG spreadsheet)	
wc scopulorum #2		<i>scopulorum</i>		1998/014	KW#6354		wc, 1924-25, Tibet & Bhutan Expedition	
wc scopulorum #2		<i>scopulorum</i>		19730921	KWA	27	China: Xizang (Tibet) Aut. Reg.: Gompa La, Tsangpo Gorge. On steep, sun-scorched boulder scree and on steep rocky slopes in thickets. 1,829 m. Stout bush 6-8 ft.	
wc scopulorum #2		<i>scopulorum</i>		1996-4618	KWRD 6354	9	Bhutan	
wc scopulorum #3		<i>scopulorum</i>		2002/007	CC#7571		wc, Spring 1996, SE Tibet Expedition	
wc scopulorum #3		<i>scopulorum</i>		2002/003	CC#7571		wc, Spring 1996, SE Tibet Expedition	
wc scopulorum #4		<i>scopulorum</i>		19980429	RUS	1	China: Xizang (Tibet) Aut. Reg.: Near the confluence of the Yigrong Tsangpo and the Tongkyuk chu; near station 62. Amongst cliffs. ca 2,100 m. 30.01°44'N, 95°39.3'E. Shrub 1-1.5 m.	30.01°44' 4" N, 95°0' 39.3" E
wc surasianum #1		<i>surasianum</i>		2003/148			wc, Chiangmai Province, Thailand, 5000-5700'	
wc surasianum #1		<i>surasianum</i>		2003/177			wc, Chiangmai Province, Thailand, 5000-5700'	
wc surasianum #2		<i>surasianum</i>			BDM1067		Doi Langka Noi, Chiangmai Thailand 1700m, should be at DBG	
wc taggianum #1		<i>taggianum</i>		2001/108	CCHH#8108		wc, 10-3-97, Gongshan, up trail from Quzi, Yunnan, China, 2130m	
wc taggianum #1		<i>taggianum</i>		2001/123	CCHH#8108		wc, 10-3-97, Gongshan, up trail from Quzi, Yunnan, China, 2130m	
wc taggianum #1		<i>taggianum</i>		2001/070	CCHH#8108		wc, 10-3-97, Gongshan, up trail from Quzi, Yunnan, China, 2130m	
wc taggianum #1		<i>taggianum</i>		2001/132	CCHH#8108		wc, 10-3-97, Gongshan, up trail from Quzi, Yunnan, China, 2130m	
wc taggianum #1		<i>taggianum</i>			CCHH8108	1	DBG has BDM748 (CCHH8108) (DBG spreadsheet)	
wc taggianum #2		<i>taggianum</i>		1992-1272	GUIZ 163	3	China	
wc taggianum #3		<i>taggianum</i>		00311		1	J. Basford says plant is lindley Ghia form of RS 499, said to be American form of lindleyi	
wc taggianum #3		<i>taggianum</i>		00312		1	J. Basford says plant is lindley Ghia form of RS 499, said to be American form of lindleyi	
wc taggianum #3		<i>taggianum</i>		00313		1	J. Basford says plant is lindley Ghia form of RS 499, said to be American form of lindleyi	
wc valentinianum #3		<i>valentinianum</i>		2015-1730	VIET 166			
wc valentinianum #4		<i>valentinianum</i>		2018-0539	DJHV 13180	3	Lao Cai, Sa Pa, Phan Xi Păng (Fansipan)	
wc valentinianum #5		<i>valentinianum</i>			BDM895		DBG has BDM895 (Cox form selfed, hp) (DBG spreadsheet).	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc valentinianum #6	dead	<i>valentinianum</i>			F27715	0	PK once had valentinianum F27715.	
wc valentinioides #1		<i>valentinianum</i>	(SEH#235 noted as R. <i>valentinioides</i> )	2000-0483	SEH.235	3	Yunnan Province, ne Yunnan, 2800 m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/155	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/128	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/137	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/222	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/144	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/211	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/161	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/174	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/257	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/235	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/180	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum var. <i>oblongilobatum</i> #1		<i>valentinianum</i>	var. <i>oblongilobatum</i>	2014/193	JN#11080		wc, Wuliang Shan, Yunnan, 2800m	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/185	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/166	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/173	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/197	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/150	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/219	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/234	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/256	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/203	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/126	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/135	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #1		<i>valentinianum</i>	aff.	2014/142	DJH MV#106		wc, 10-06, N Vietnam	
wc valentinianum #2		<i>valentinianum</i>	aff.	2016/040	FMWJ#13298		wc, N Vietnam	
wc valentinianum #2		<i>valentinianum</i>	aff.	2016/062	FMWJ#13298		wc, N Vietnam	
wc valentinianum #2		<i>valentinianum</i>	aff.	2016/082	FMWJ#13298		wc, N Vietnam	
wc valentinianum #7	dead	<i>valentinianum</i>	aff.		DT31598	0	An aff. DT31598 in colln 97.	
wc valentinianum #8		<i>valentinianum</i>	aff.		DT319		DT319 valentinianum aff.	

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc valentinianum var. oblongilobatum #2		<i>valentinianum</i>	var. <i>oblongilobatum</i>	19960619	KYE	1	China: Yunnan: Wenshan Zhuang-Miao Aut. Pref.: Laujunshan, Wenshan. Amongst bamboo. ca 2,600 m. 23°30'N, 104°35'E. Shrub to 2 m (like AC 1221 but terrestrial).	104°35' E, 23°30' N
wc valentinianum var. oblongilobatum #3		<i>valentinianum</i>	var. <i>oblongilobatum</i>	19960621	KYE	8	China: Yunnan: Wenshan Zhuang-Miao Aut. Pref.: Xichou, Wenshan. ca 1,800 m. 23°N, 104°38'E. Shrub to 2 m; epiphytic on <i>Lithocarpus</i> sp.	104°38' E, 23° N
wc valentinianum var. oblongilobatum #3		<i>valentinianum</i>	var. <i>oblongilobatum</i>		AC1258		PK has AC1258 (PK16) (ex S. Dahal. ?)	
wc valentinianum var. oblongilobatum #4		<i>valentinianum</i>	var. <i>oblongilobatum</i>		C&H7186		R. val. obl. C&H7186 at Orton Bradley (NZRA bulletin 2003 p21).	
wc valentinioides #1		<i>valentinioides</i>		1997/137	SEH#235		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2800m	
wc valentinioides #1		<i>valentinioides</i>		1997/136	SEH#235		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2800m	
wc valentinioides #1		<i>valentinioides</i>		1997/139	SEH#235		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2800m	
wc valentinioides #2		<i>valentinioides</i>		1997/128	SEH#237		wc, Sept. & Oct. 1995, NE Yunnan Province, China, 2800m	
wc valentinioides #3		<i>valentinioides</i>		2017-628	VIET 183	5	Vietnam	
wc valentinioides #3		<i>valentinioides</i>		2015-1731	VIET 183	16	Vietnam	
wc veitchianum #1		<i>veitchianum</i>		2002/012	C#9001		wc, Doi Inthanon, Thailand	
wc veitchianum #1		<i>veitchianum</i>		2002/001	C#9001		wc, Doi Inthanon, Thailand	
wc veitchianum #1		<i>veitchianum</i>		1998/017	C#9001		wc, Doi Inthanon, Thailand (mountain)	
wc veitchianum #2		<i>veitchianum</i>		19750211	VLD	12	Thailand: Chiang Mai: Doi Pui. 160 m.	
wc veitchianum #3		<i>veitchianum</i>		19991627	TH99	1	Thailand: Thailand, NW: Above Huay Hee village, near Mae Hong.	
wc veitchianum #4		<i>veitchianum</i>			KR2247		veitchianum aff. KR2247 (OM44)	
wc veitchianum #5?		<i>veitchianum</i>			Thailand		Collected in Thailand (PK58) by Os Blumardt (The <i>Rhododendron</i> 2015, p39) – this form is in the Publitz garden.	
wc veitchianum #6		<i>veitchianum</i>			BDM1066		DBG has BDM1066 (Thailand) (DBG spreadsheet).	
wc veitchianum #7	dead	<i>veitchianum</i>			AC5645	0	R. veitchianum AC5645 (North Vietnam) offered for sale in 2012 (PPM2012).	
wc veitchianum #8		<i>veitchianum</i>	'Ice White'		Thailand		R. veitchianum Ice White (PK21, wild collected, Thailand) offered for sale in 1994 (PPM1994).	
wc walongense #1		<i>walongense</i>		2007/355	HECC#10004		wc, 10-17-2002, Arunachal Pradesh, 5400'	
wc walongense #1		<i>walongense</i>		2007/312	HECC#10004		wc, 10-17-2002, Arunachal Pradesh, 5400'	
wc walongense #2		<i>walongense</i>		2005/253	HECC#10006		wc, 10-22-2002, Arunachal Pradesh, 6600'	
wc walongense #2		<i>walongense</i>		2005/239	HECC#10006		wc, 10-22-2002, Arunachal Pradesh, 6600'	
wc walongense #2		<i>walongense</i>		2005/167	HECC#10006		wc, 10-22-2002, Arunachal Pradesh, 6600'	
wc wumingense #1		<i>wumingense</i>		2014/014	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/044	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/025	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/080	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/111	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/036	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/020	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/076	CGG#14150			

Wc no.	Dead acc.	R. species	ssp/var/(syn.)/ 'cultivar'	Acc. ID	Collector ID	No. of plants	Collection provenance	Provenance coordinates
wc wumingense #1		<i>wumingense</i>		2014/053	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/061	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/098	CGG#14150			
wc wumingense #1		<i>wumingense</i>		2014/010	CGG#14150			
wc wumingense #2		<i>wumingense</i>		2016/027	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/071	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/077	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/060	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/046	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/091	CDHM#14724			
wc wumingense #2		<i>wumingense</i>		2016/038	CDHM#14724			
wc wumingense #3		<i>wumingense</i>		20140719	COX	3	China: Daming Shan.	
wc wumingense #1		<i>wumingense</i>		2014-0449	CGG.14150	1	no specific location	

## References

MacKay, M. B., Hootman, S. E., Smith, G. F., Thomson, D., Gardiner, S. E., & Smith, P. (2018). *Updated global analysis for ex situ conservation of Rhododendron L. (Ericaceae)*. Massey University, Palmerston North, New Zealand & Botanic Gardens Conservation International, Richmond, UK. Retrieved from <https://www.globalconservationconsortia.org/resources/updated-global-analysis-for-ex-situ-conservation-of-rhododendron-l-ericaceae/>

SUPPLEMENTARY MATERIAL 1 Checklist of taxon profiles of *Rhododendron* subsection *Maddenia*

The 65 taxa of *Rhododendron* subsection *Maddenia* are listed in alphabetical order. Each taxon profile includes information on taxon name with commonly seen synonyms in cultivation, IUCN Red List category, wild distribution locality and altitude range, status of *ex situ* cultivation. The list of taxa includes all species currently defined (as described below) and does not consider issues of unresolved taxonomy.

This list summarises all taxa of ss. *Maddenia* (species, subspecies and botanical varieties) with their synonyms, based on the 56 taxa classified by Chamberlain et al. (1996). In addition, four taxa are listed separately from species complexes and analysed as distinct entities due to unresolved taxonomy: *R. iteophyllum* (A Mao et al., 2017), *R. sinonuttallii* (Gibbs et al., 2011), *R. taronense* (Gibbs et al., 2011), *R. valentinioides* (ined.) (Gibbs et al., 2011; Donald, 2012). *R. vanderbiltianum* is also included despite its doubtful placement (Argent et al., 2008; Donald, 2012; MacKay et al., 2018). Another four recently published species are updated: *R. pseudomaddenii* (Mao & Bhaumik, 2015), *R. leptocladon* (Rushforth & Nguyen, 2019), *R. kuomeianum* (Chang et al., 2021) and *R. starlingii* (Rushforth et al., 2022).

IUCN Red List categories for subsection *Maddenia* are listed as CR (Critically Endangered), EN (Endangered), VU (Vulnerable), NT (Near Threatened), LC (Least Concern), DD (Data Deficient) and NE (Not Evaluated). Taxa of ss. *Maddenia* are categorized according to their conservation status: CR, EN, VU, NT, DD, LC or NE (no taxon known as EX or EW). Threatened levels of taxa were initially from the IUCN Red List of Rhododendrons (Gibbs et al., 2011) or from assessments for the recently published species: *R. pseudomaddenii* (Mao & Bhaumik, 2015) and *R. kuomeianum* (Chang et al., 2021), or the updated assessments conducted by the BGCI & IUCN SSC Global Tree Specialist Group (IUCN, 2018) and endemic species referring to national assessments in China: the China Red List of higher plants (MEP–CAS, 2013) and threatened species list of China's higher plants (Qin et al., 2017). BGCI's ThreatSearch database was also indexed for reference of existing conservation assessments globally or regionally (BGCI, 2022). We prioritize global assessments to decide the IUCN Red List category, but some national assessments in China are considered at a global level for endemic taxa. Finally, the **Red List status in bold** for each taxon was adopted.

Each taxon profile is initially described with two maps including information of wild distribution (upper map) and *ex situ* collections (lower map). The distribution area was geo-mapped for each taxon, referring to literature and online databases that describe taxon distribution in administrative or natural regions within an altitudinal range (Cullen, 1980; Davidian, 1982; Feng, 1988; Feng, 1992; Feng & Yang, 1999; Fang et al., 2005; Fang et al., 2011; Gibbs et al., 2011; Mao & Bhaumik, 2015; Mao et al., 2017; Chang et al., 2021; Rushforth et al., 2022). For particular taxa with limited geographical information, especially those not in cultivation (e.g., *R. amandum*), provenance of type specimens (Davidian, 1982) or documented wild collections (RBGE, 2018b; RBGE, 2018a; Supplementary Table 2 from

the present study) were also referenced. Region or site names were initially searched using the QGIS ‘GeoCoding’ plugin and/or by manual confirmation on Google maps. When there was no direct result for the geo-reference search, the distribution was manually located referring to the taxon’s habitat, altitude and administrative address as described. Herbarium occurrence in the Global Biodiversity Information Facility database (GBIF, 2021) was referenced only when the distribution in the literature was geographically broad and not defined with specific geographical information, and where there was no related information in the Red List (Gibbs et al., 2011) or Flora of China (Fang et al., 2005).

Data describing the presence of ss. *Maddenia* taxa in cultivation were collected from three key sources: 1) BGCI PlantSearch public website (BGCI, 2021); 2) an unpublished set of BGCI data for *Rhododendron* records (BGCI, 2020) (see taxon-level data in the compiled Supplementary Table 1); 3) accession-level data from seven gardens in New Zealand and seven largest collections of ss. *Maddenia* outside New Zealand (see Supplementary Table 2), which includes unpublished data from MacKay et al. (2018) and additional data or individual garden updates in 2020.

*Ex situ* collection sites are geo-located with green triangles on the lower map in each taxon profile. Number (no.) of *ex situ* sites represents count of occurrences holding collections of the corresponding taxon in BGCI database.

On the upper map of each profile, there may be two types of plots representing provenance of the wild accessions in *ex situ* conservation. Red diamonds represent accurate origins of wild collections with available coordinates or precise collection locations described; pink dots represent approximate origins of wild collections with an approximate description of the source, usually mapped near the center of the described region with a reference of habitat altitude if available. Therefore, it is possible that accessions are identified as from the wild but not mapped due to lacking provenance data. Because our mapping of taxa distribution and wild accessions are manually generated based on literature and garden records, maps presented here should be viewed as estimates to compare among taxa for conservation prioritization rather than the actual diversity captured in *ex situ* collections.






In the data matrix of each taxon profile, number (no.) of wild sources was counted as for number of wild collections according to collector ID. When a collector ID was unavailable, other information about the collection was referenced to establish a reliable identification. No. of mapped wild sources represents the count of wild accessions mapped with available provenance information according to our compiled dataset; others were counted for number of wild sources but not mapped. No. of wild accessions represents the total count of accessions under the same collector ID in the surveyed botanic gardens.

Maps in each taxon profile were georeferenced and generated using QGIS 3.20.3 (QGIS Development Team, 2021). GIS layers were used as base for the two maps, with ESRI grey layer in the top (regional) map for wild distribution and provenance of wild accessions, and KG layer in the bottom (global) map for locating *ex situ* sites. For geo-mapping, several layers were used to cross check various factors as mapping references. Most distribution records were at different administrative units (e.g., country, province/state, city, county, town). Natural Earth layers (cultural) at a resolution of 10 m (Natural Earth, 2021) and ‘ESRI

National Geographic' layer and 'Google.cn Normal' layer (QGIS plugin: 'QuickMapServices' for the latter two layers) were used as base maps to recognize the national geographical area in administrative units. Data for range of altitude (Davidian, 1982; Fang et al., 2005) were also referenced when drawing distribution polygons. The altitude was inferred from the 'ESRI Topo' base map (QGIS plugin: 'QuickMapServices'), which presents contour lines at a resolution of 20 m. The shape layer at a 1 km resolution of the latest Köppen–Geiger climate classification system was used as a reference for regional climate, which presents the spatial climate classes based on air temperature and precipitation integrated with topographic effects (Beck et al., 2018). Only the natural range was considered, and the extent of distribution mapping of different taxa may differ due to the availability of information on their distribution.

The designations employed and plant data analysed in this study do not imply any opinion of the authors' concerning country territory and legal status of plant material.

Legend for the taxon profiles:

	light orange polygon - wild distribution
	dark orange square - location of type specimen
	red diamond - precise provenance of wild accession
	pink dot - approximate provenance of wild accession
	green triangle - botanic garden living collection of taxon

## 1. *Rhododendron* × *cavroni* André

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Taxonomic references: Chamberlain et al., 1996; International Plant Names Index (2022)

IUCN Red List status: NE

No distribution data.

Not in cultivation.

Due to lack of data and no published materials, we suggest removing this species from subsection *Maddenia*. It is not included by World Flora Online (WFO, 2022).



## 2. *Rhododendron amandum* Cowan

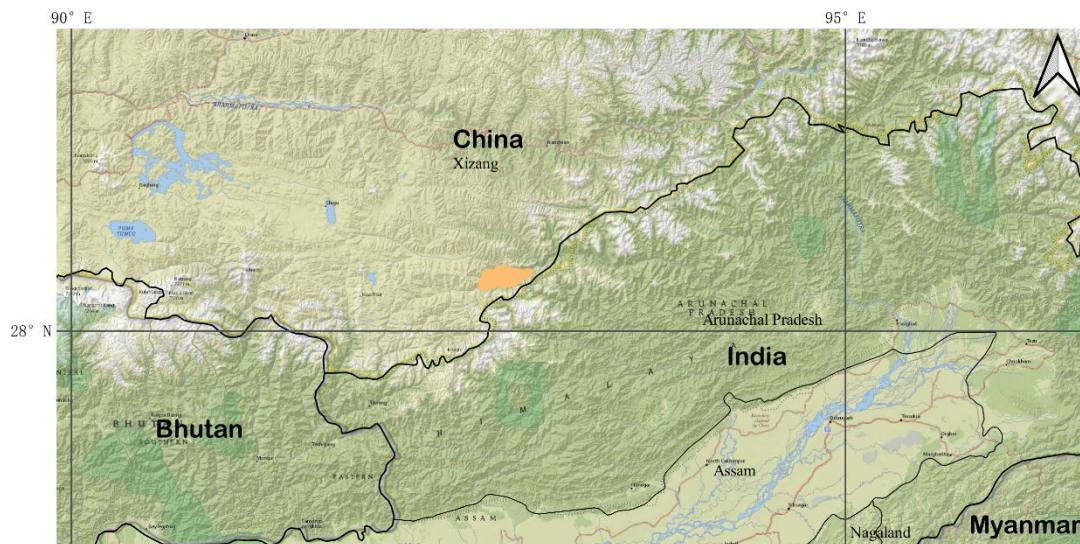
---

IUCN Red List status: **DD** (Gibbs et al., 2011; Qin et al., 2017)

Distribution: China (Xizang)

Altitude: ca. 3,500 m

Not in cultivation.



\* Lacking distribution data. This map shows the location where the type specimen was collected (Davidian, 1982).

### 3. *Rhododendron basfordii* Davidian

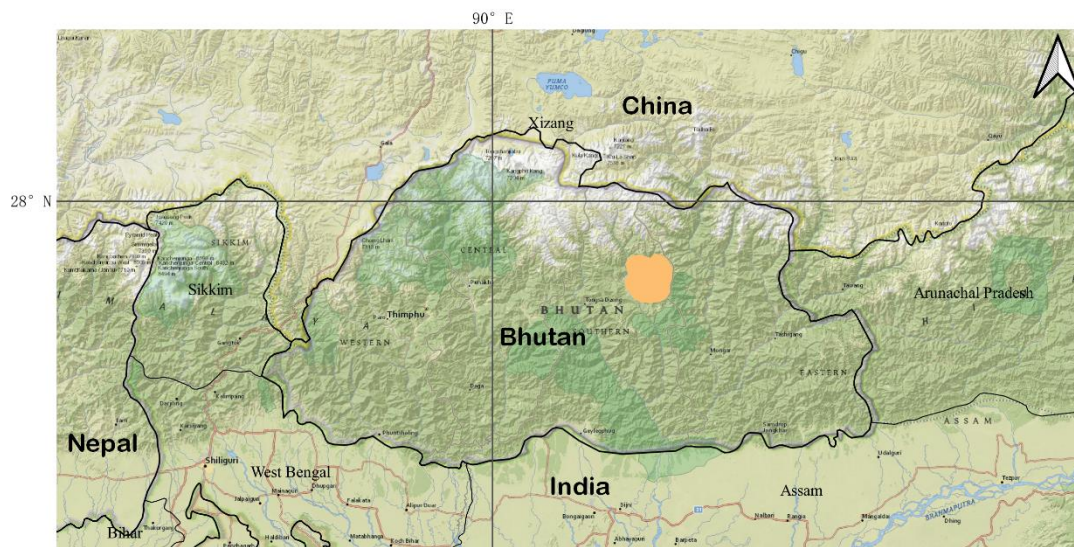
---

IUCN Red List status: NE

Distribution: Bhutan \*

Altitude: ca. 2,593 m

Not in cultivation.



\* Lacking distribution data. This map shows the location where the type specimen was collected (Davidian, 1982).

#### 4. *Rhododendron burmanicum* Hutch.

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IUCN Red List status: **LC** (Gibbs et al., 2011)

Distribution: Myanmar

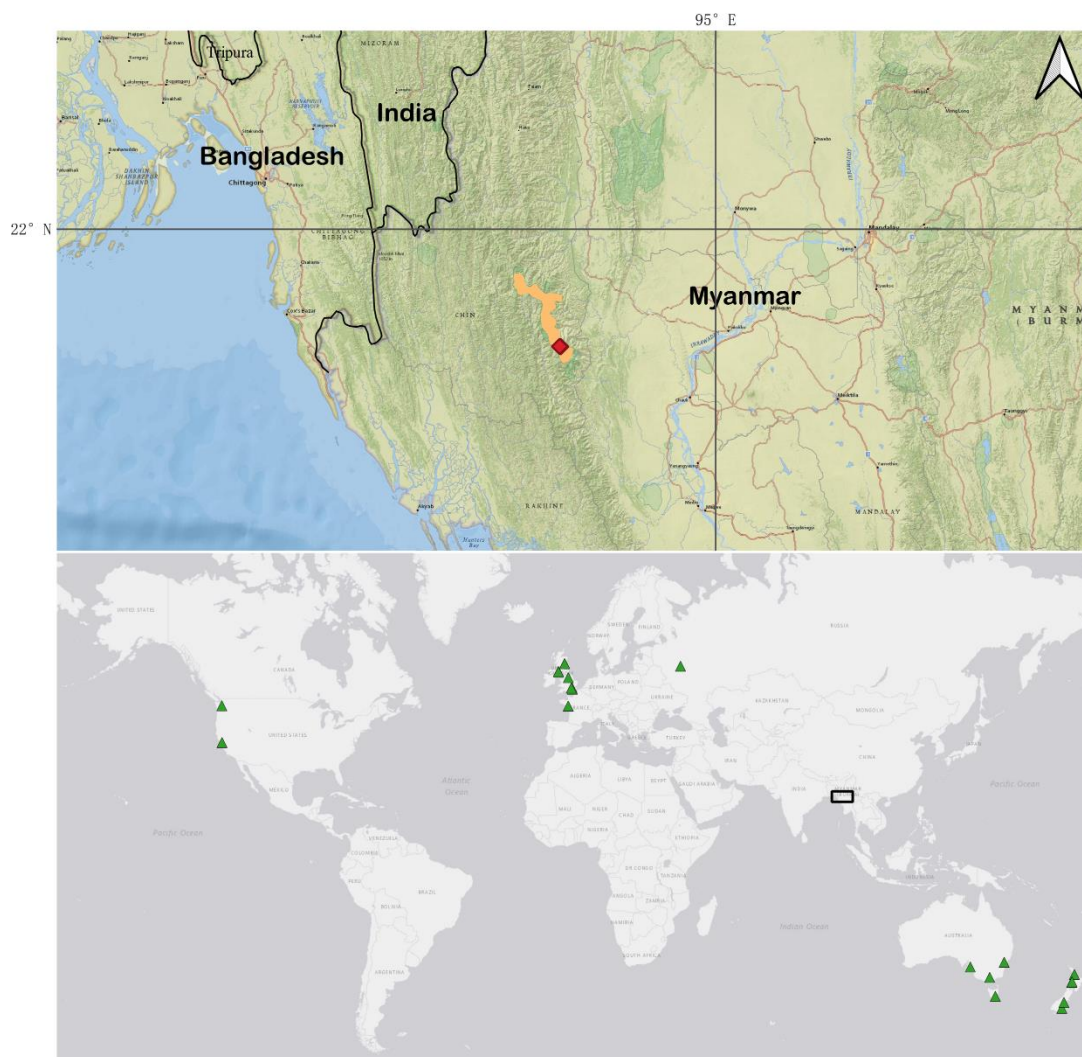
Altitude: 2,745–3,020 m

No. of *ex situ* sites/countries: 19/6

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 3

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## 5. *Rhododendron carneum* Hutch.

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IUCN Red List status: NE

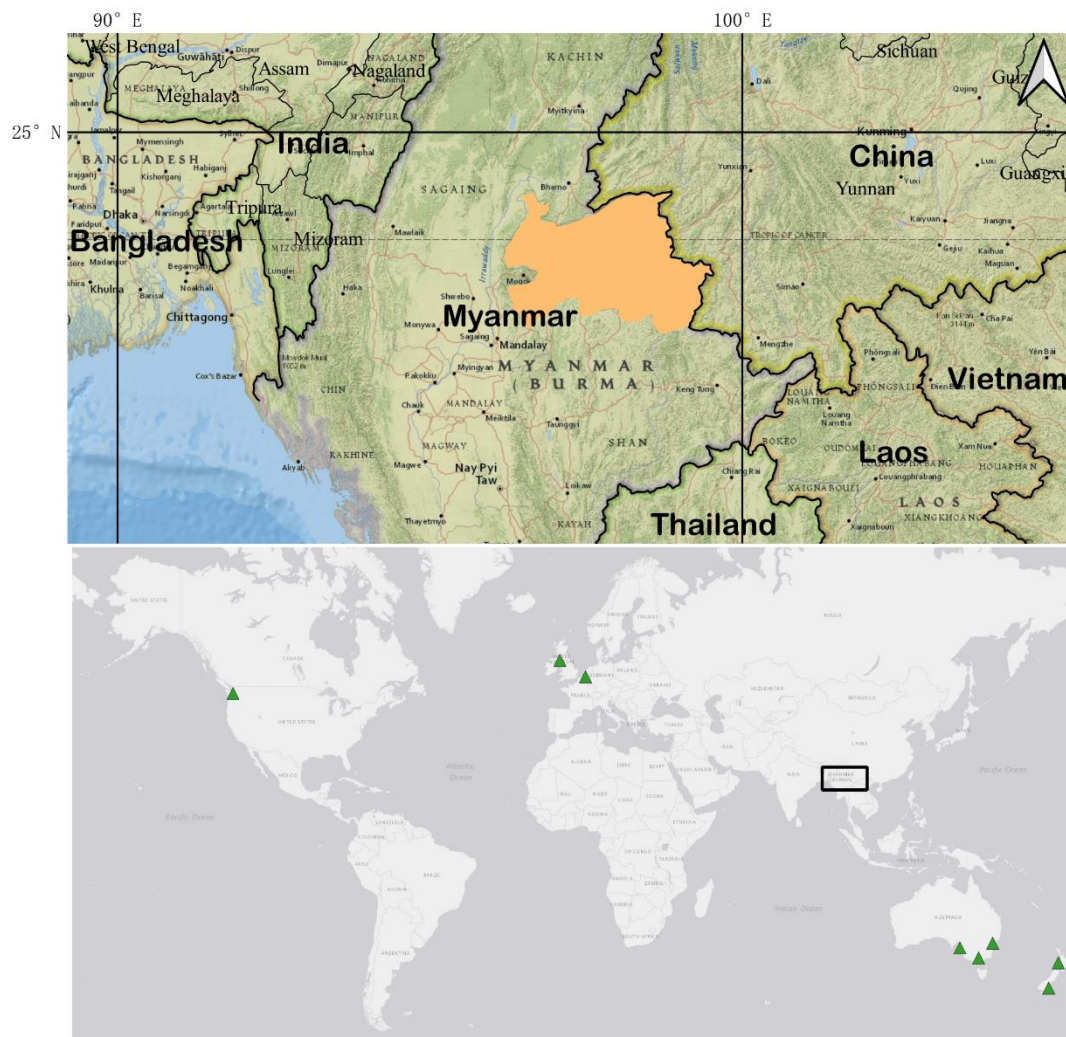
Distribution: Myanmar

Altitude: ca. 2,288 m

No. of *ex situ* sites/countries: 8/5

No. of (mapped) wild sources: 0

No. of wild accessions: 0



## 6. *Rhododendron changii* (W.P.Fang) W.P.Fang

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IUCN Red List status: globally CR (Gibbs et al., 2011), VU in China (Qin et al., 2017)

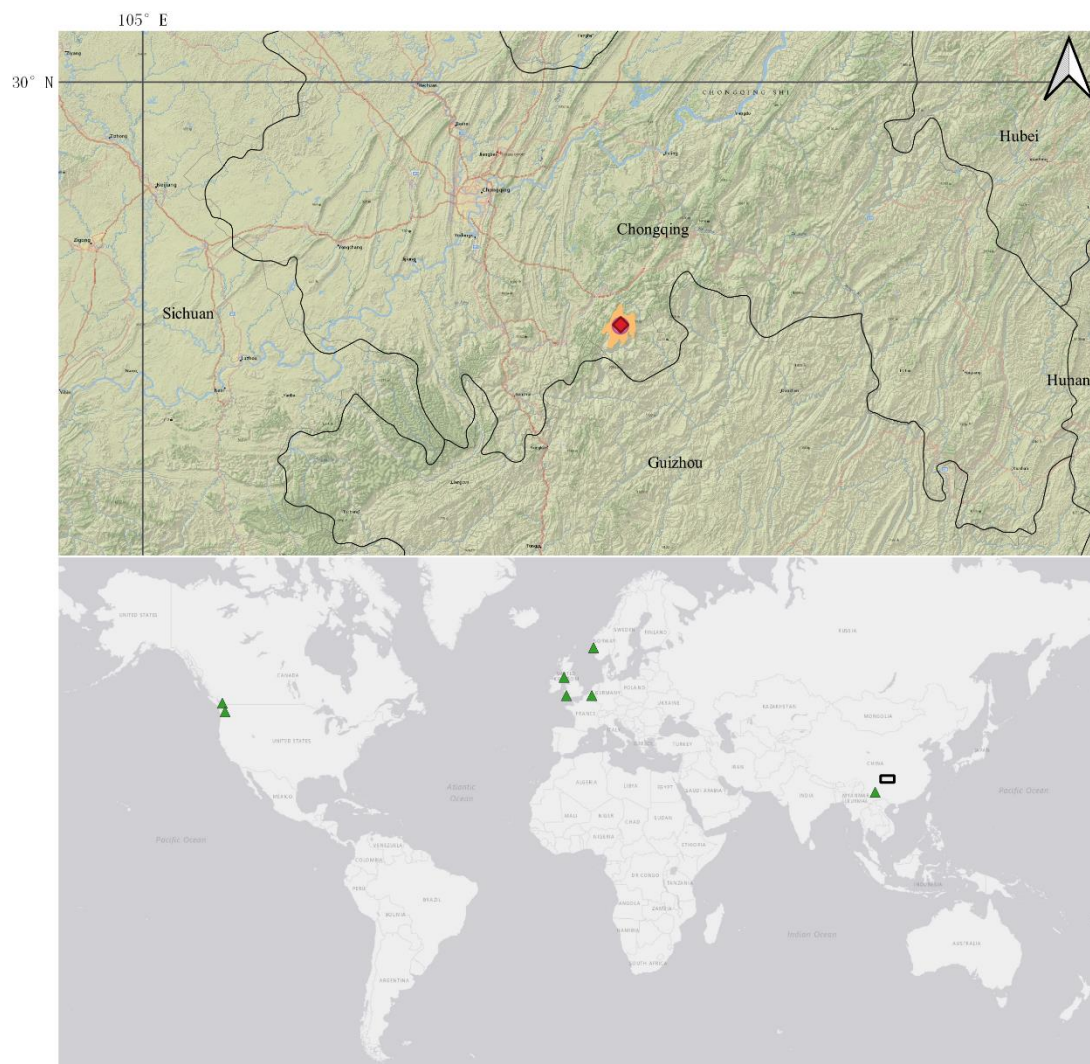
Distribution: China (S Chongqing)

Altitude: 1,600–2,000 m

No. of *ex situ* sites/countries: 7/6

No. of (mapped) wild sources: (2) 3

No. of wild accessions: 8



## 7. *Rhododendron chunienii* Chun & W.P.Fang

IUCN Red List status: **DD** (Gibbs et al., 2011)

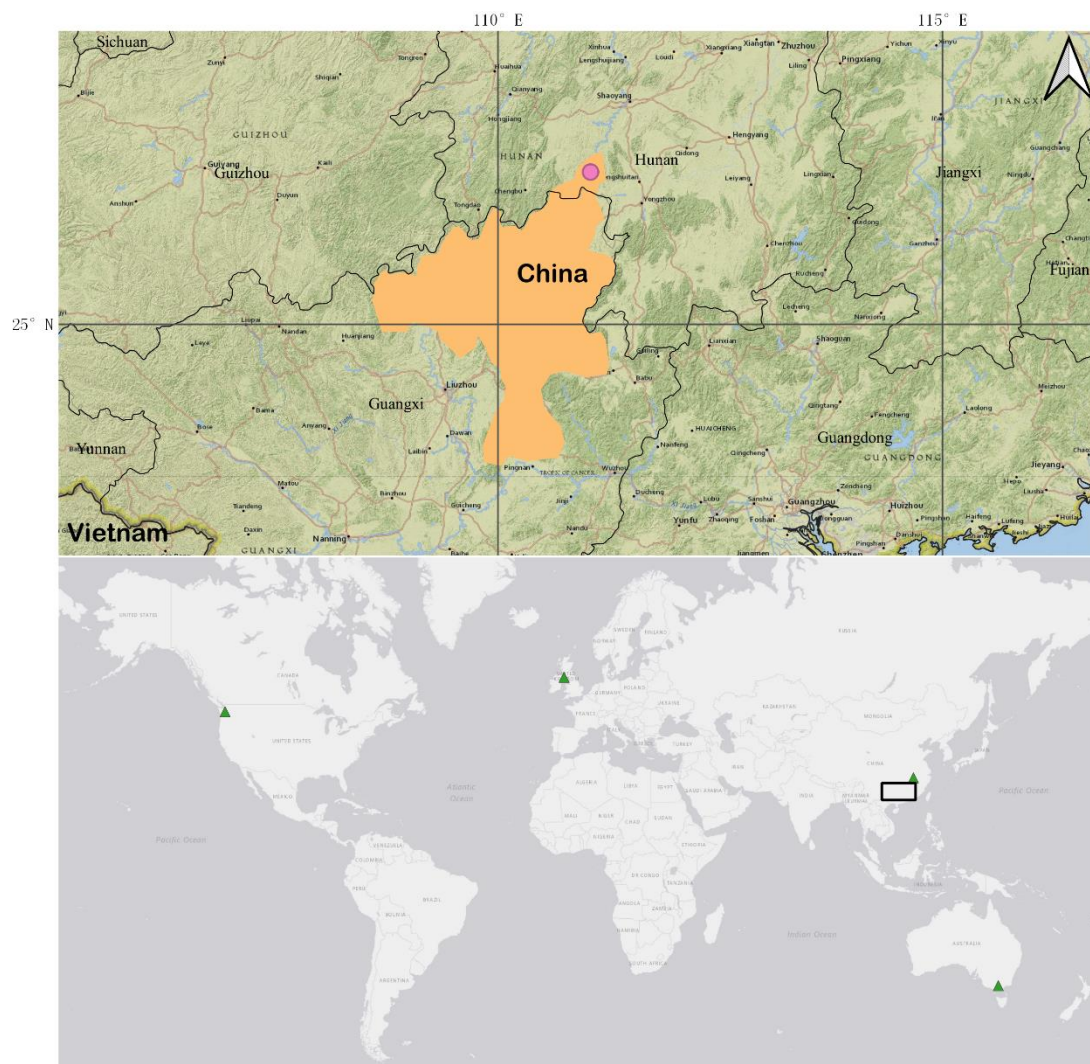
Distribution: China (NE Guangxi, SW Hunan)

Altitude: 1,300–1,400 m (Fang et al., 2005); ca. 1,700 m (Feng & Yang, 1999)

No. of *ex situ* sites/countries: 4/4

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 2



## 8. *Rhododendron ciliatum* Hook.f.

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IUCN Red List status: **LC** (Gibbs et al., 2011; MEP-CAS, 2013)

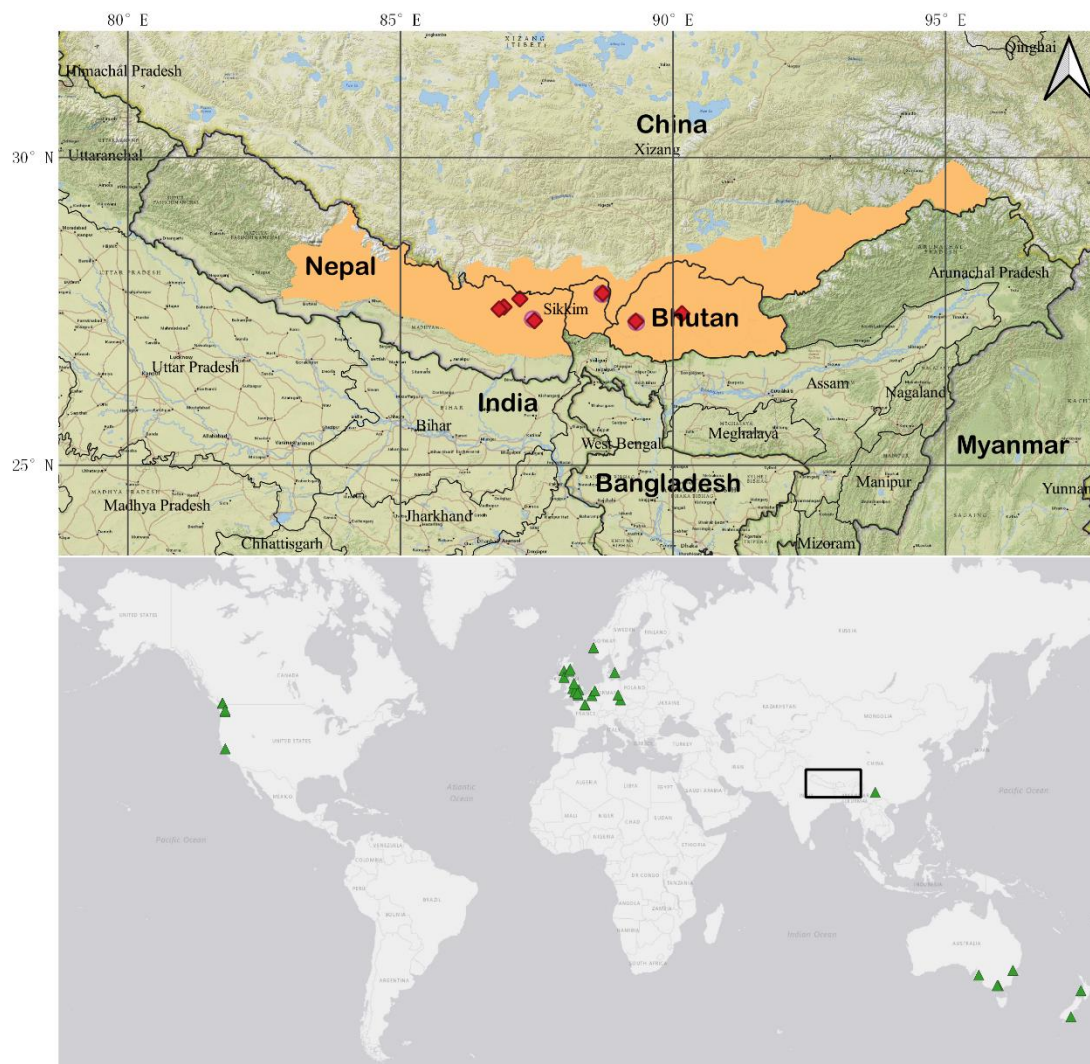
Distribution: China (S Xizang), Bhutan, E Nepal, India (Sikkim)

Altitude: 2,700–3,500 m

No. of *ex situ* sites/countries: 13/30

No. of (mapped) wild sources: (13) 15

No. of wild accessions: 31



## 9. *Rhododendron cilicalyx* Franch.

IUCN Red List status: **LC** (IUCN, 2018)

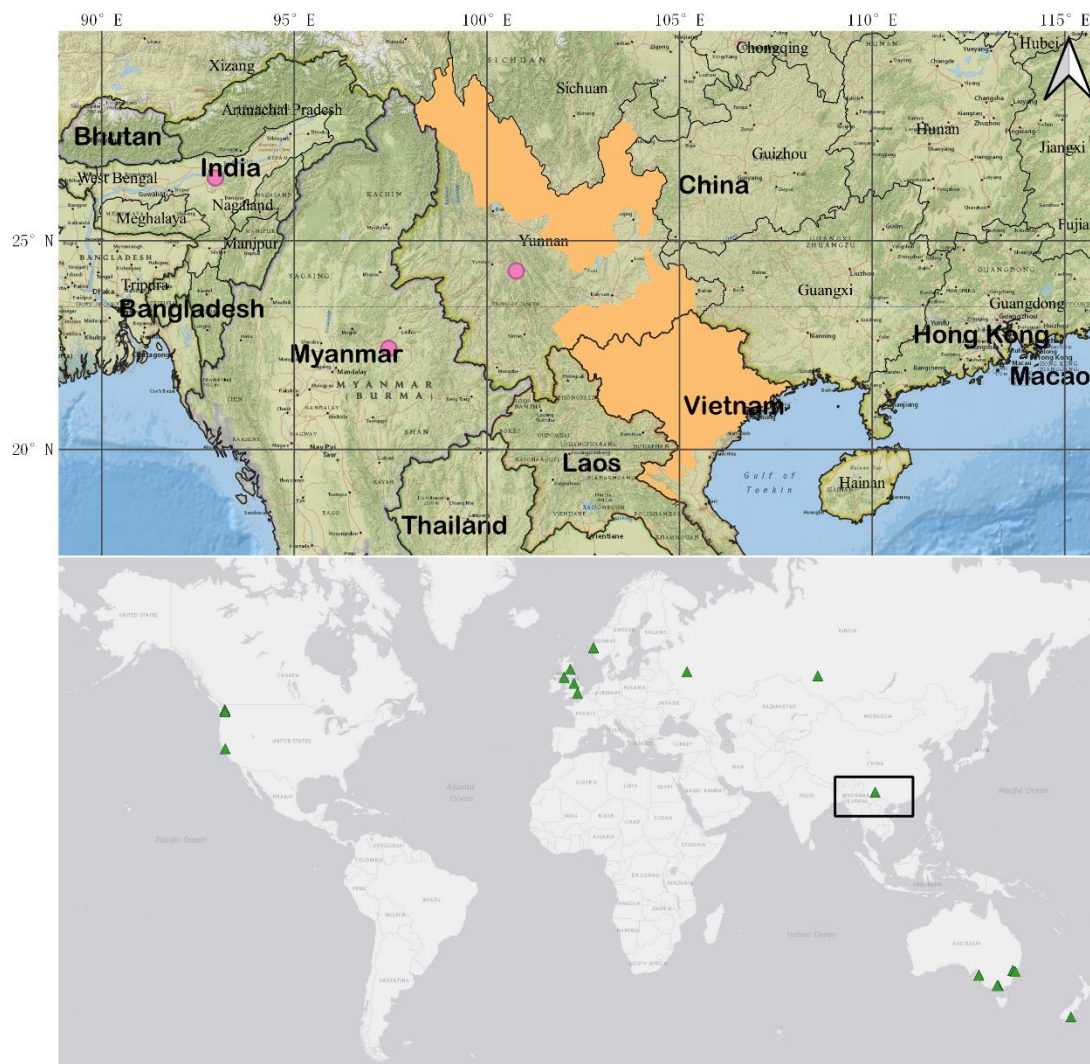
Distribution: China (Yunnan) \*, N Vietnam. Lacking data

Altitude: 1,000–3,100 m (Fang et al., 2005); 2,700–3,500 m (Feng, 1992)

No. of *ex situ* sites/countries: 17/7

No. of (mapped) wild sources: (3) 4 #

No. of wild accessions: 7



\* Fang et al. (2011) mapped the distribution which is different from other references (Davidian, 1982; Feng & Yang, 1999; Fang et al., 2005). The map here follows the latter.

# Wild accessions labelled as *R. cilicalyx* may be in fact *R. cilicalyx* ssp. *lyi*, or wild distribution of the former is wider than presently described (in the regions where the pink dots are located).



## 10. *Rhododendron ciliicalyx* Franch. ssp. *lyi* (H.Lév.) R.C.Fang

Note: treated as a subspecies of *R. ciliicalyx* in descriptions of Chinese species (Feng & Yang, 1999; Fang et al., 2005; Fang et al., 2011) and the Red List (Gibbs et al., 2011), but as a distinct species as *R. lyi* by Davidian (1982) and Chamberlain et al. (1996).

IUCN Red List status: **LC** (Gibbs et al., 2011, MEP-CAS, 2013)

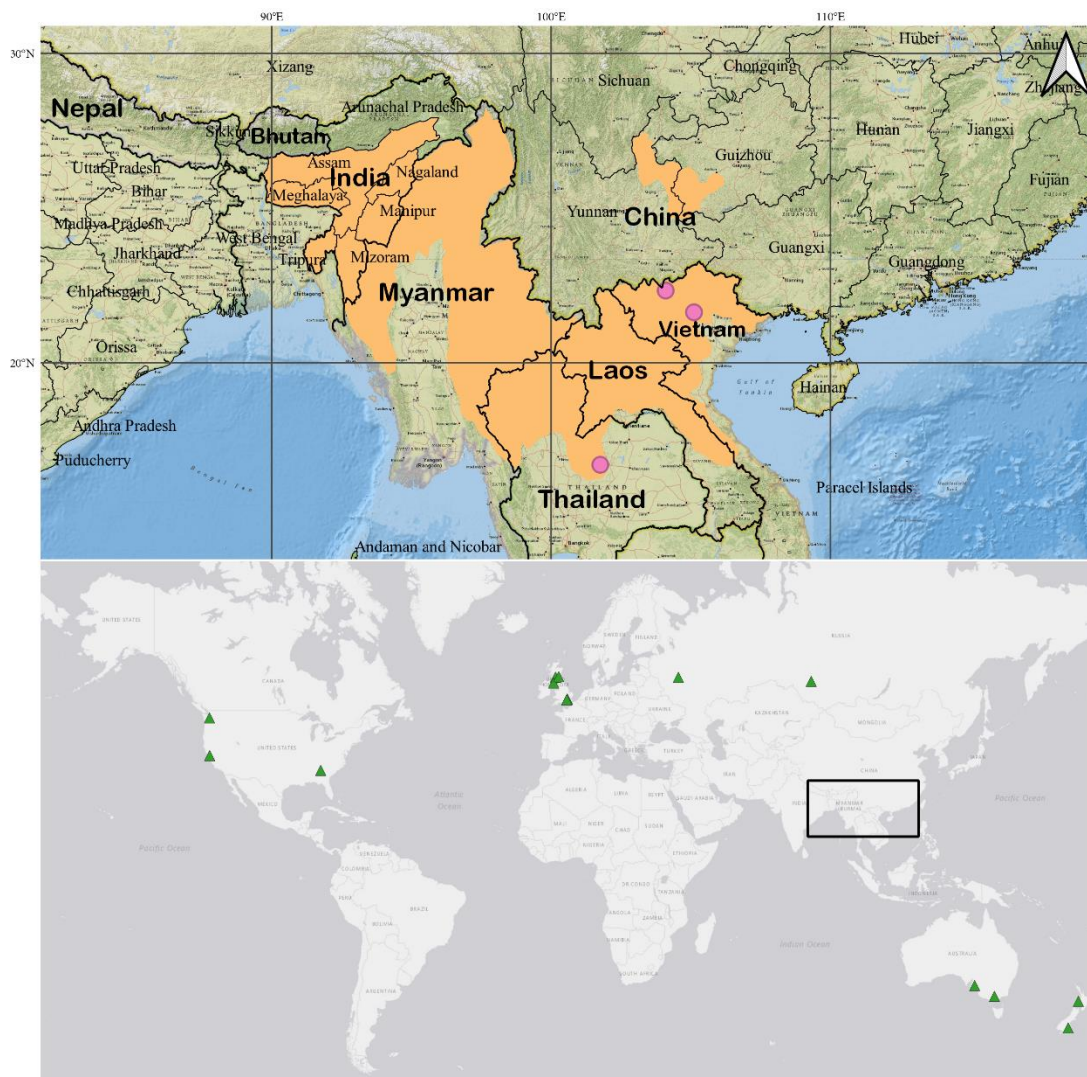
Distribution: China (Guizhou, Yunnan) \*, NE India, Laos, Myanmar, Thailand, Vietnam. Lacking data

Altitude: 1,300–2,200 m

No. of *ex situ* sites/countries: 14/5

No. of (mapped) wild sources: (3) 6

No. of wild accessions: 11



\* Fang et al. (2011) mapped the distribution which is different from other references (Davidian, 1982; Feng & Yang, 1999; Fang et al., 2005). The map here follows the latter.

## 11. *Rhododendron ciliipes* Hutch.

IUCN Red List status: **DD** (Gibbs et al., 2011, MEP-CAS, 2013)

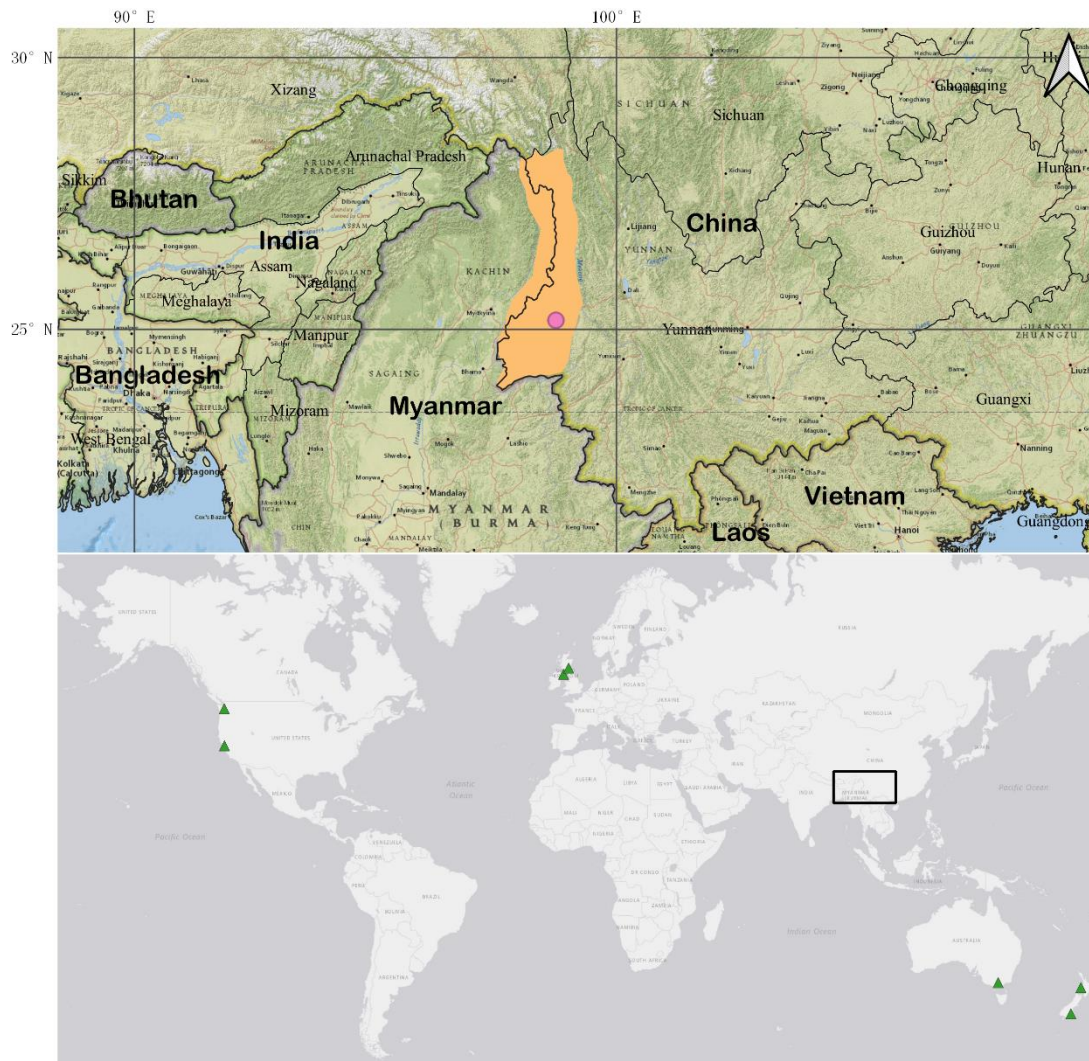
Distribution: China (W Yunnan), NE Myanmar

Altitude: 2,300–3,000 m

No. of *ex situ* sites/countries: 7/4

No. of (mapped) wild sources: (1) 2

No. of wild accessions: 2



## 12. *Rhododendron coxianum* Davidian

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IUCN Red List status: **CR** (Gibbs et al., 2011)

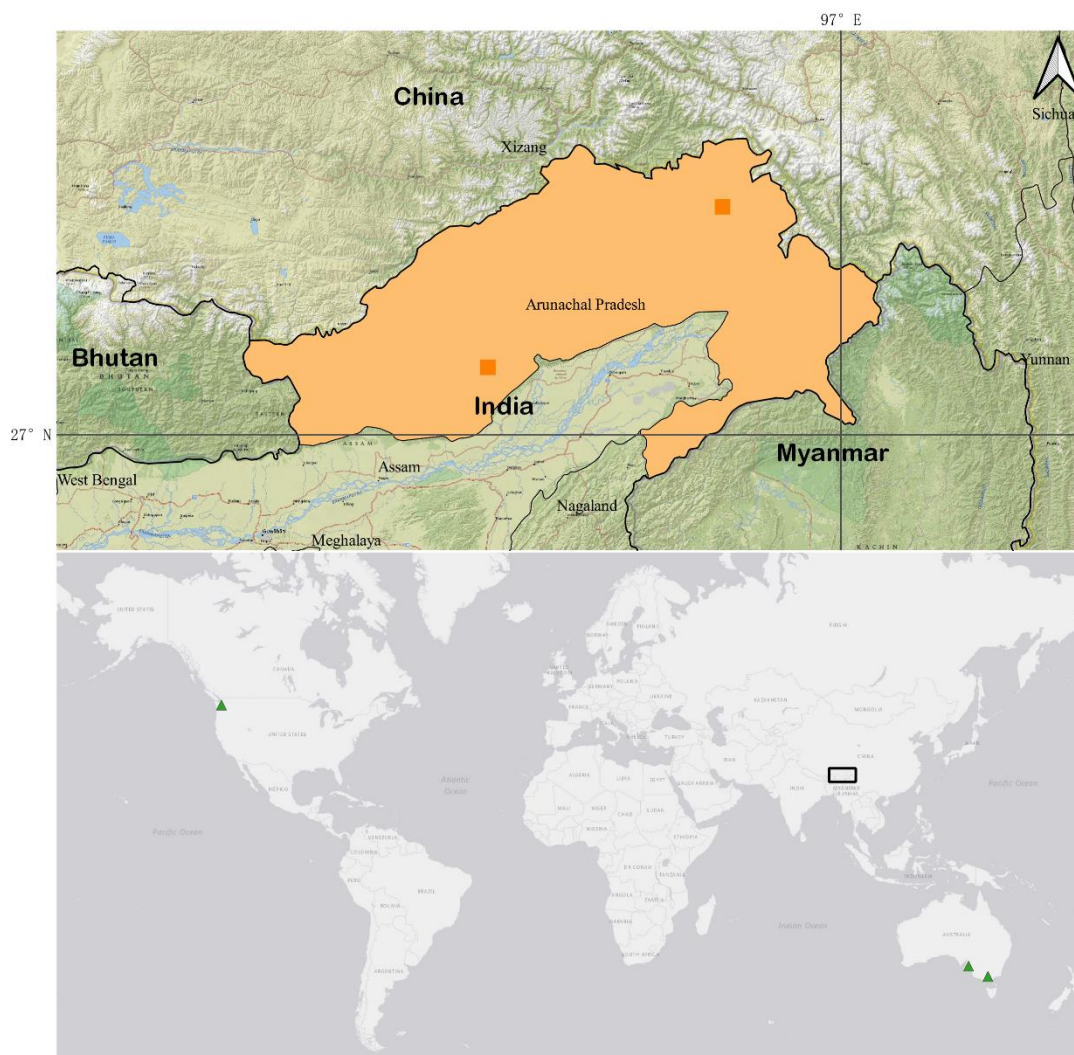
Distribution: India (Arunachal Pradesh <sup>1</sup>) \*

Altitude: ca. 1,647 m

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: (0) 1

No. of wild accessions: 1



\* Lacking distribution data. This map shows the location where the type specimens were collected in Apa Tani Valley (now Ziro Valley, type specimen) and Debang Valley in Arunachal Pradesh (Davidian, 1982; Gibbs et al., 2011).

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<sup>1</sup> Disputed area between China and India. In this study, Arunachal Pradesh is included in India in this study following the geography of QGIS base layers.

### 13. *Rhododendron crenulatum* Hutch. ex Sleumer

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IUCN Red List status: **LC** (Gibbs et al., 2011)

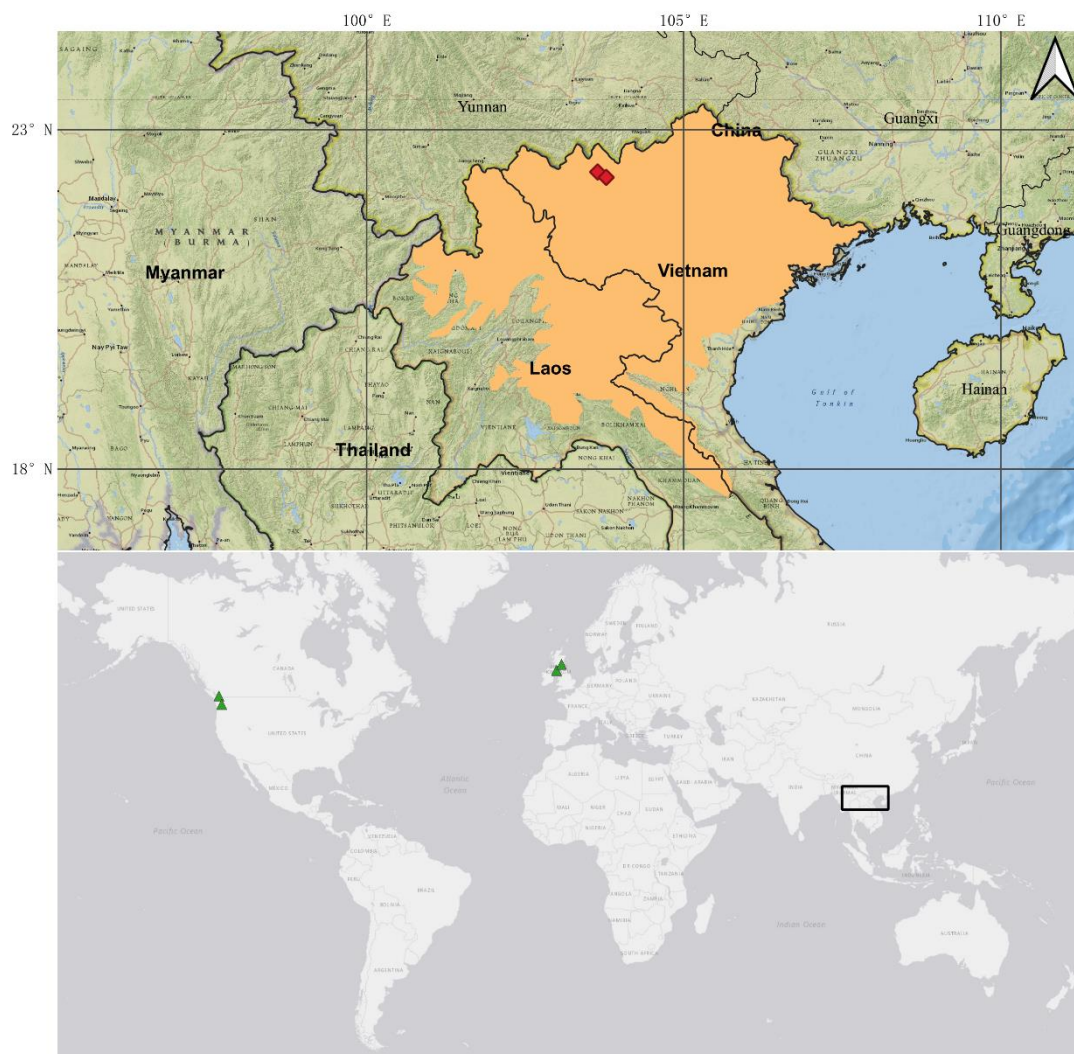
Distribution: N Vietnam, N Laos

Altitude: ca. 2,800 m

No. of *ex situ* sites/countries: 4/3

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 1 (only one living)



*R. starlingii* is separated from *R. crenulatum* (Rushforth et al., 2022). The two wild collections of *R. starlingii* were previously under *R. crenulatum*: AC#5685 and KR#7369.

## 14. *Rhododendron cuffmanum* Hutch.

IUCN Red List status: NE

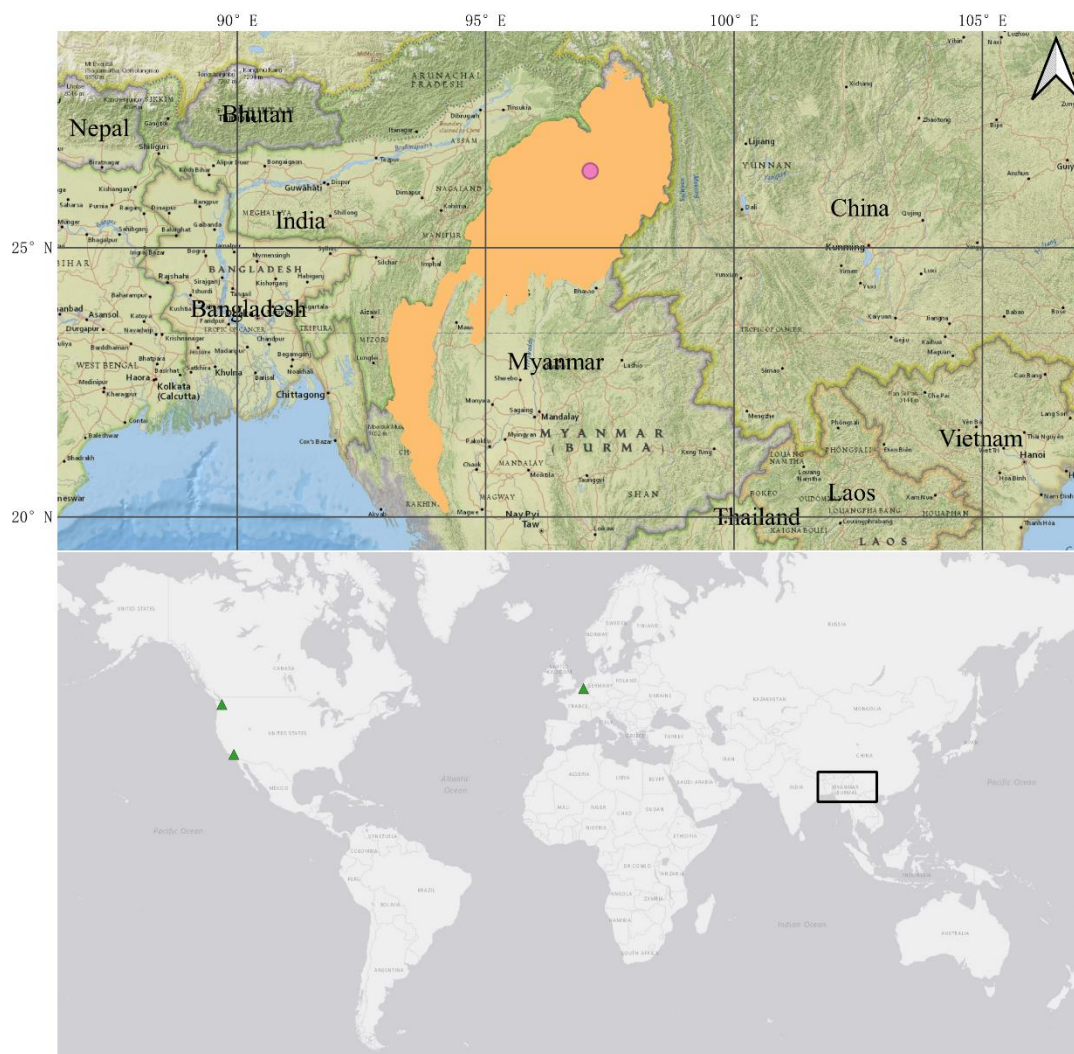
Distribution: N and W Myanmar \*

Altitude: N/A

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 1



\* Based on locations of the two wild collections due to unavailable data of wild distribution.

## 15. *Rhododendron dalhousiae* Hook.f. var. *dalhousiae*

IUCN Red List status: **LC** (Gibbs et al., 2011)

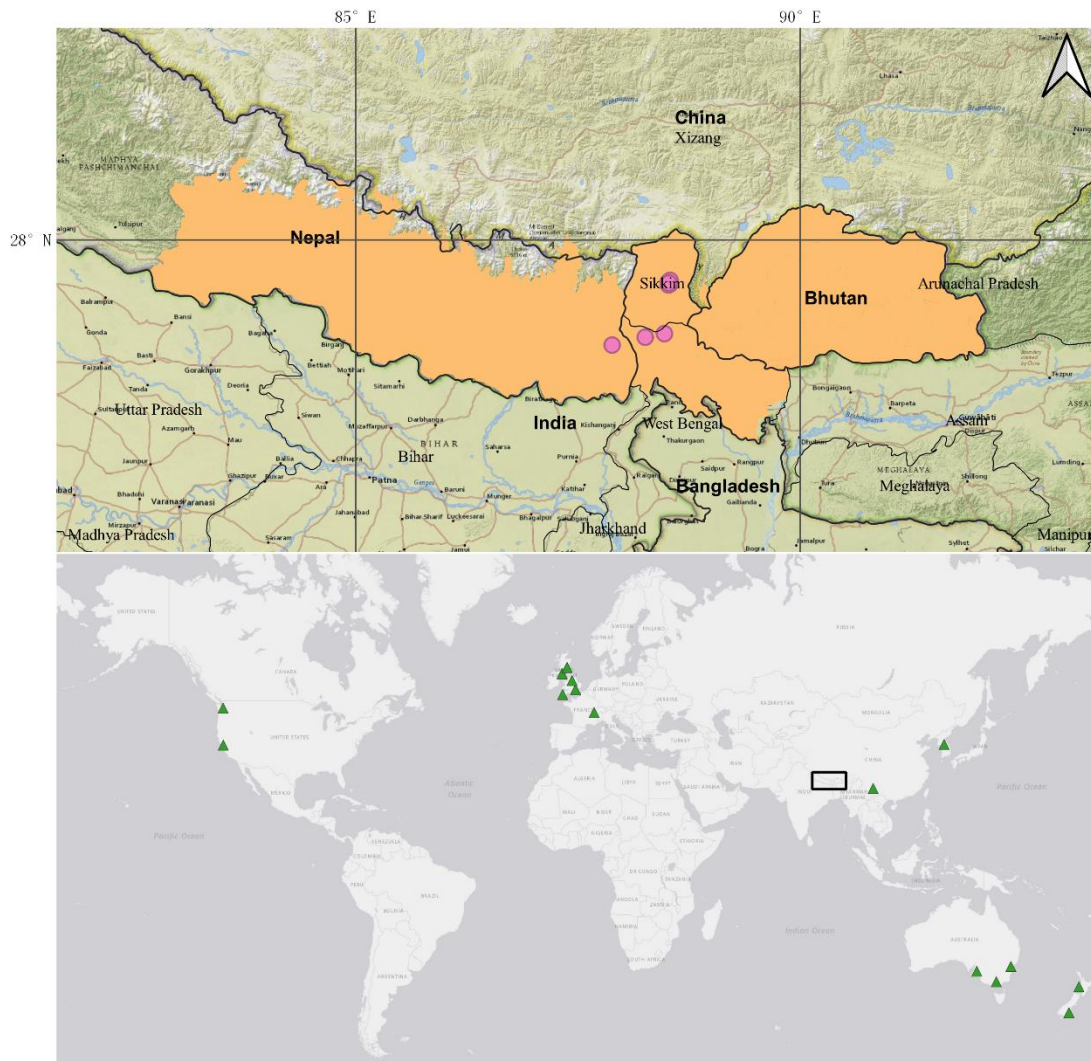
Distribution: China (S Xizang), India (West Bengal, Sikkim), Bangladesh, Bhutan, E Nepal

Altitude: 2,000–2,500 m

No. of *ex situ* sites/countries: 15/7

No. of (mapped) wild sources: (8) 9

No. of wild accessions: 13



## 16. *Rhododendron dalhousiae* Hook.f. var. *rhabdotum* (Balf.f. & R.E.Cooper) Cullen

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IUCN Red List status: **VU** (Gibbs et al., 2011)

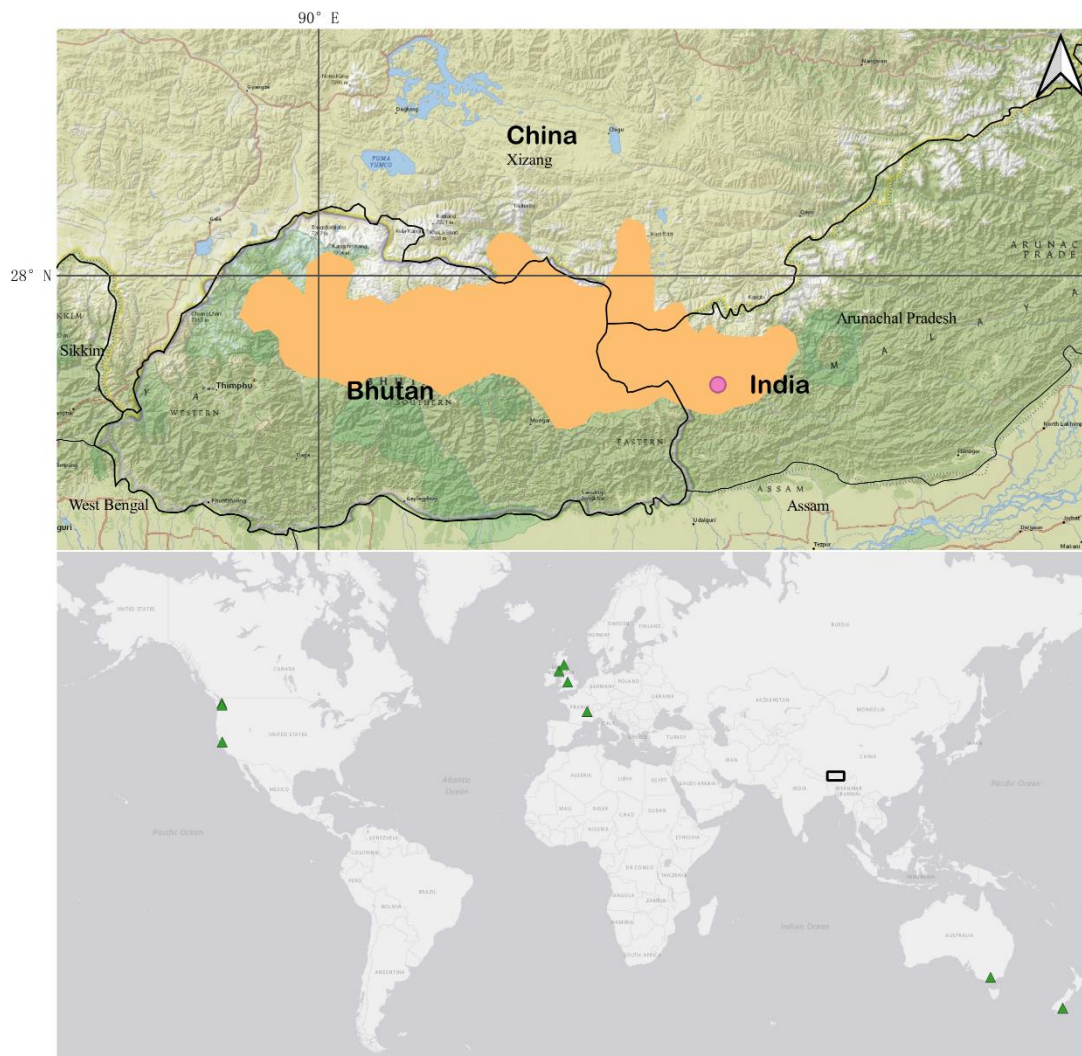
Distribution: Bhutan, NE India (Arunachal Pradesh), China (S Xizang)

Altitude: 1,500–2,600 m

No. of *ex situ* sites/countries: 9/5

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 5



## 17. *Rhododendron dendricola* Hutch.

IUCN Red List status: **VU** (Gibbs et al., 2011; Qin et al., 2017)

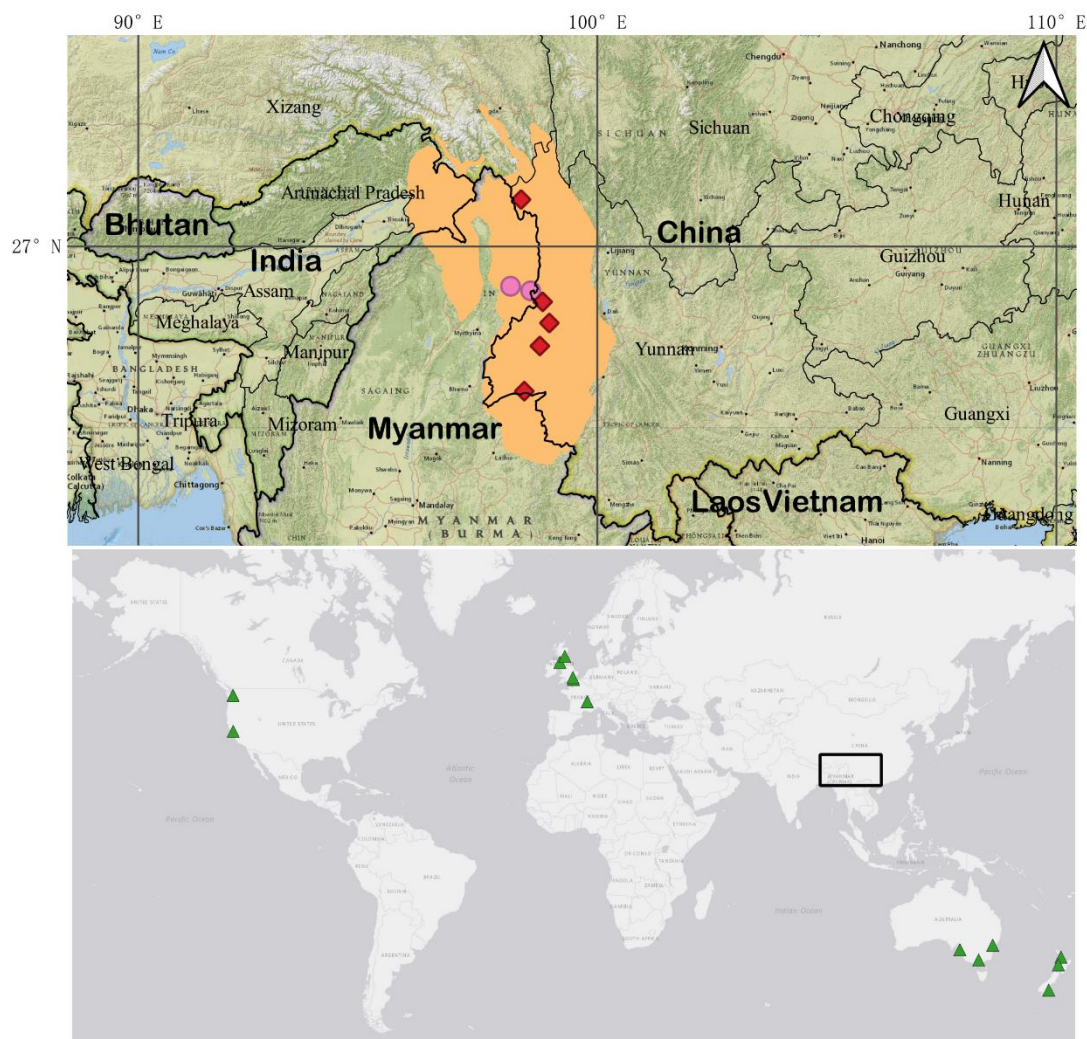
Distribution: China (SE Xizang, NW Yunnan), India (Arunachal Pradesh), N Myanmar

Altitude: 2,135–3,050 m (Davidian, 1982). In Yunnan, China: 1,350–2,700 m (Feng, 1988); 1,200–2,800 m (Li & Zhou, 2005); 1,300–1,900 m (Fang et al., 2005)

No. of *ex situ* sites/countries: 13/5

No. of (mapped) wild sources: (7) 9

No. of wild accessions: 23





## 18. *Rhododendron eheinense* M.Y.He & Z.J.Zhao

IUCN Red List status: NE

Distribution: China (Sichuan). Lacking distribution data. No information of type specimen

Altitude: N/A

Not in cultivation.



*R. eheinense* is an accepted species endemic to Sichuan, China (<https://www.ipni.org/n/985026-1>). It was not listed in contents of Flora of China (Fang et al., 2005) but mentioned in the appendix as a valid species.

## 19. *Rhododendron excellens* Hemsl. & E.H.Wilson

IUCN Red List status: globally VU (Gibbs et al., 2011), NT in China (MEP-CAS, 2013)

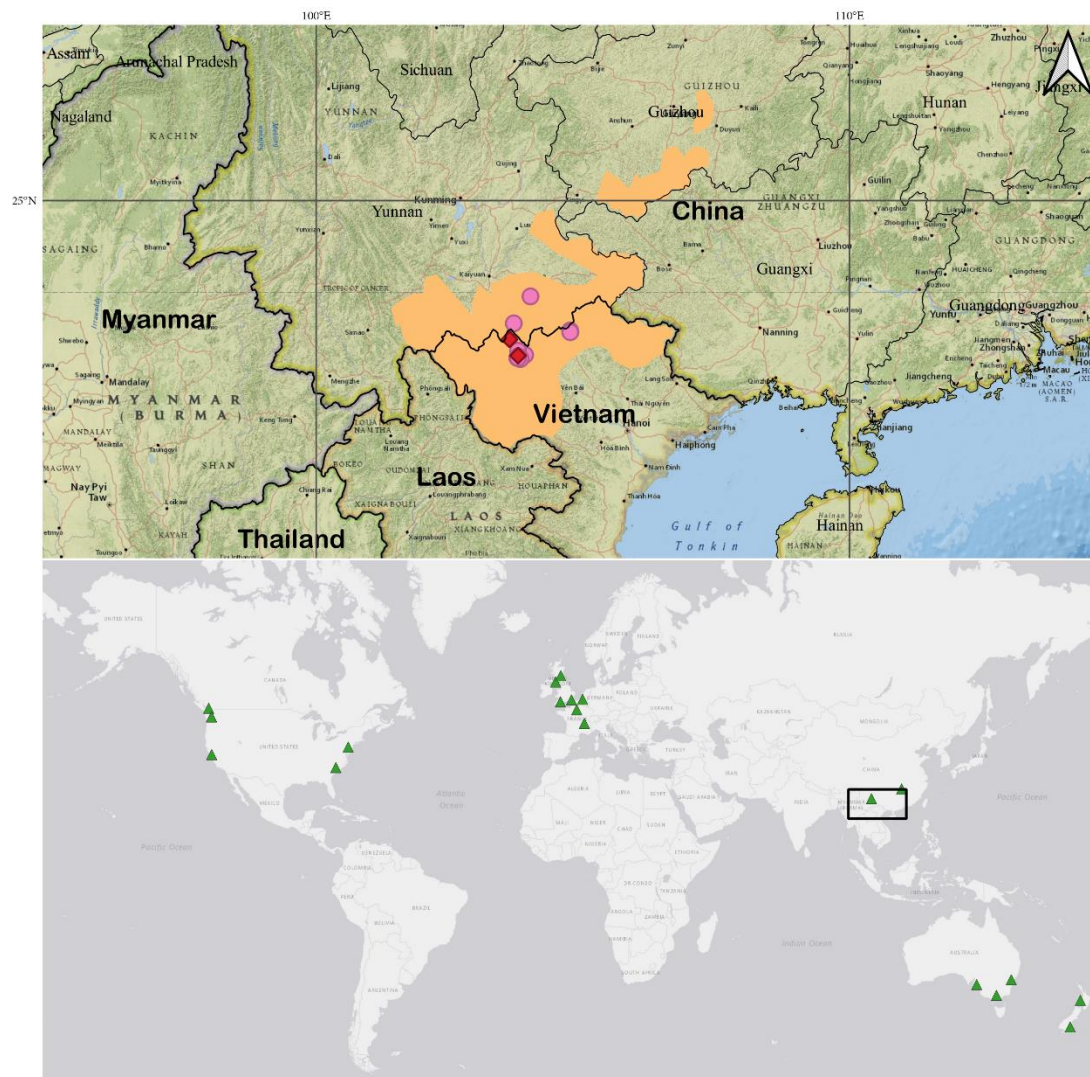
Distribution: China (SE Yunnan, S Guizhou), N Vietnam

Altitude: 1,100–2,400 m

No. of *ex situ* sites/countries: 19/8

No. of (mapped) wild sources: (22) 25

No. of wild accessions: 47 #



# *R. excellens* (SEH#227) (Supplementary Table 2) is suspected to be mistakenly recorded as from NE Yunnan rather than actually SE Yunnan (according to Steve Hootman's description of the 1995 expedition <https://rhodygarden.org/new-r-valentinioides-646/>).

## 20. *Rhododendron fletcherianum* Davidian

IUCN Red List status: **EN** (Gibbs et al., 2011)

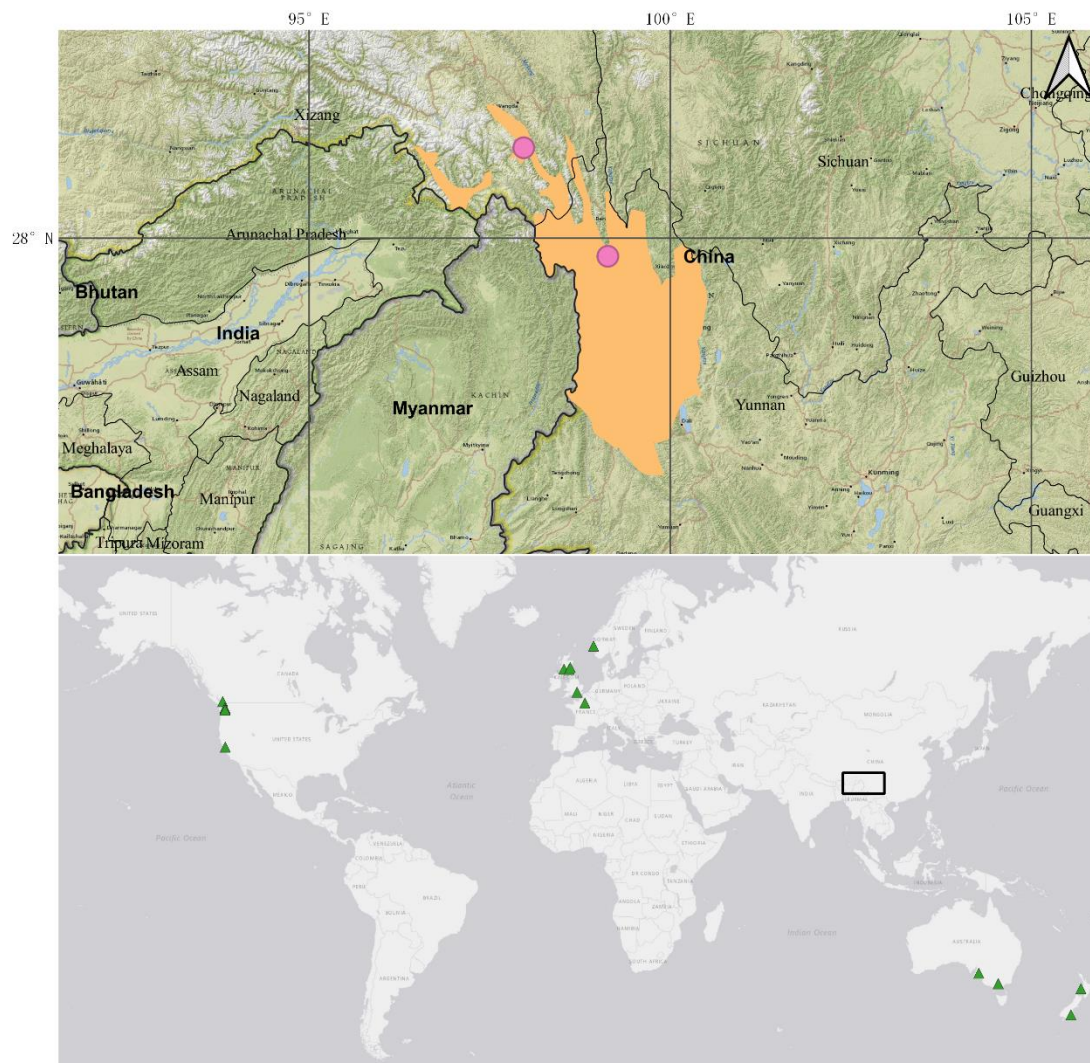
Distribution: China (SE Xizang, NW Yunnan)

Altitude: ca. 3,400 m

No. of *ex situ* sites/countries: 14/7

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 4



## 21. *Rhododendron fleuryi* Dop

IUCN Red List status: **CR**

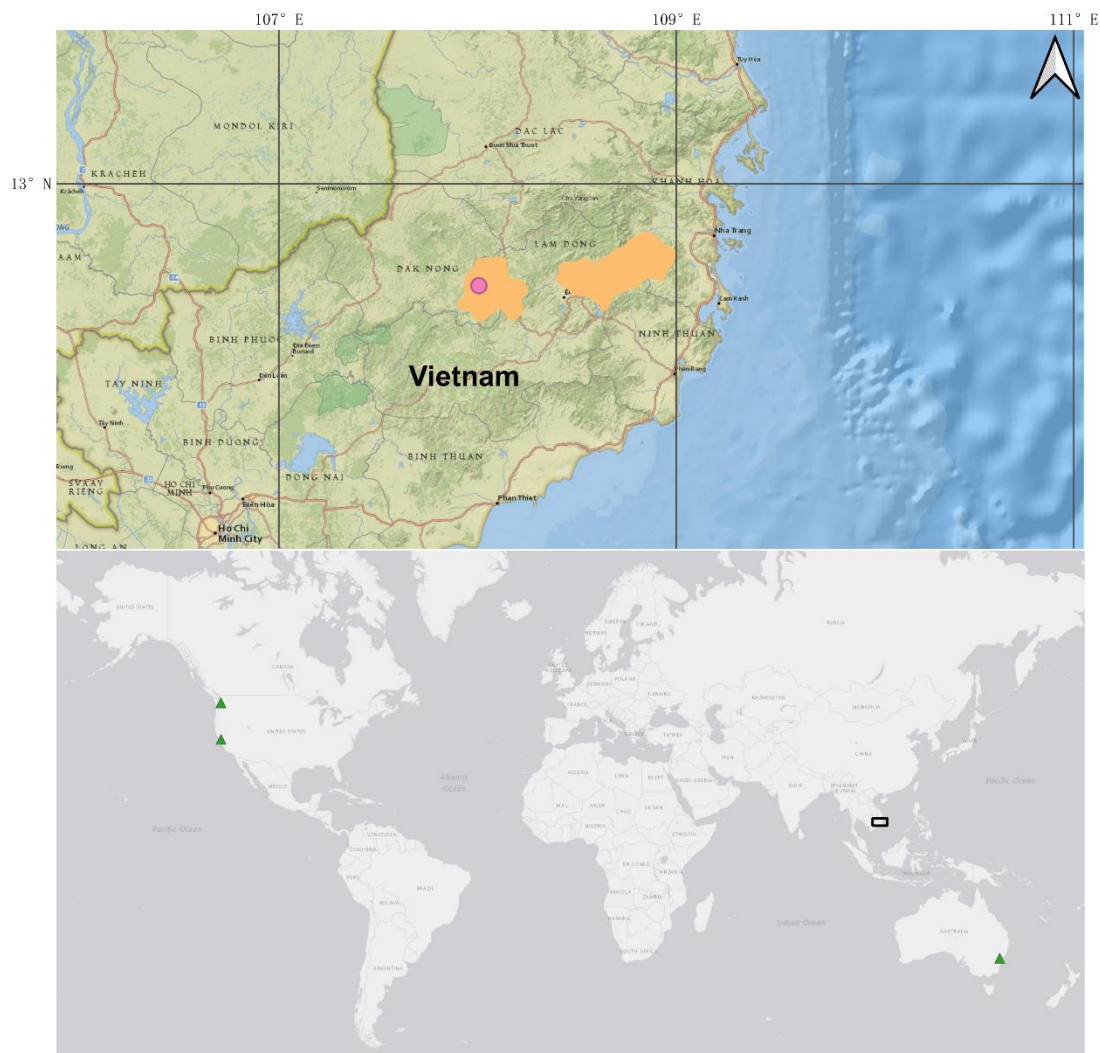
Distribution: S Vietnam \*

Altitude: 2,000–2,500 m

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 1



\* The distribution of *R. fleuryi* in northern Vietnam in the Red List (Gibbs et al., 2011) is suspected to be an error. Langbiang, where the specimen plant was discovered, is in S Vietnam.

## 22. *Rhododendron formosum* Wall. Var. *formosum*

Chamberlain et al. (1996) listed *R. iteophyllum* as a synonym. Mao et al. (2017) suggested to separate *R. iteophyllum* out from *R. formosum* as a distinct species.

IUCN Red List status: globally **CR** as *R. formosum* var. *formosum* (Gibbs et al., 2011), EN as *R. formosum* in India (Meghalaya) (<https://www.nationalredlist.org/>), VU as *R. formosum* in India (Arunachal Pradesh) (<https://www.nationalredlist.org/>).

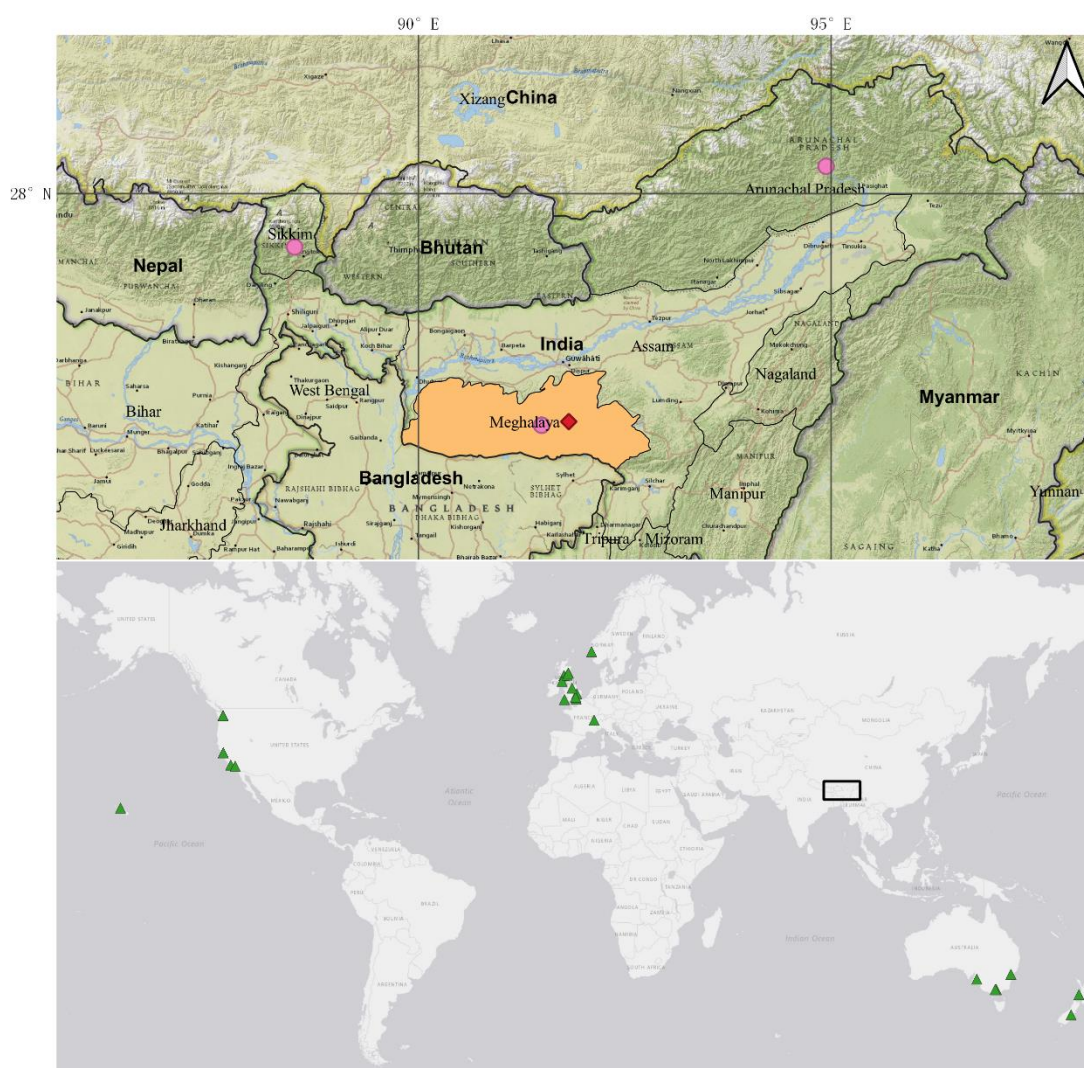
Distribution: India (Meghalaya) \*

Altitude: 1,400–2,300 m \*

No. of *ex situ* sites/countries: 22/6

No. of (mapped) wild sources: (4) 5

No. of wild accessions: 6



\* According to Mao et al. (2017). Davidian (1982) described the distribution as in India (Assam) and north–west Upper Burma, at altitude 736–2,196 m. However, he located the specimen in Khasia Hills, Assam, which is suspected to be today’s Khasi Hills, Meghalaya.

Although *R. formosum* var. *formosum* is listed CR and has few wild accessions, it has many living collections worldwide.

### 23. *Rhododendron formosum* Wall. Var. *inaequale* (Hutch.) Cullen

Note: considered as a distinct species as *R. inaequale* by Mao et al. (2017).

IUCN Red List status: **DD** (Gibbs et al., 2011)

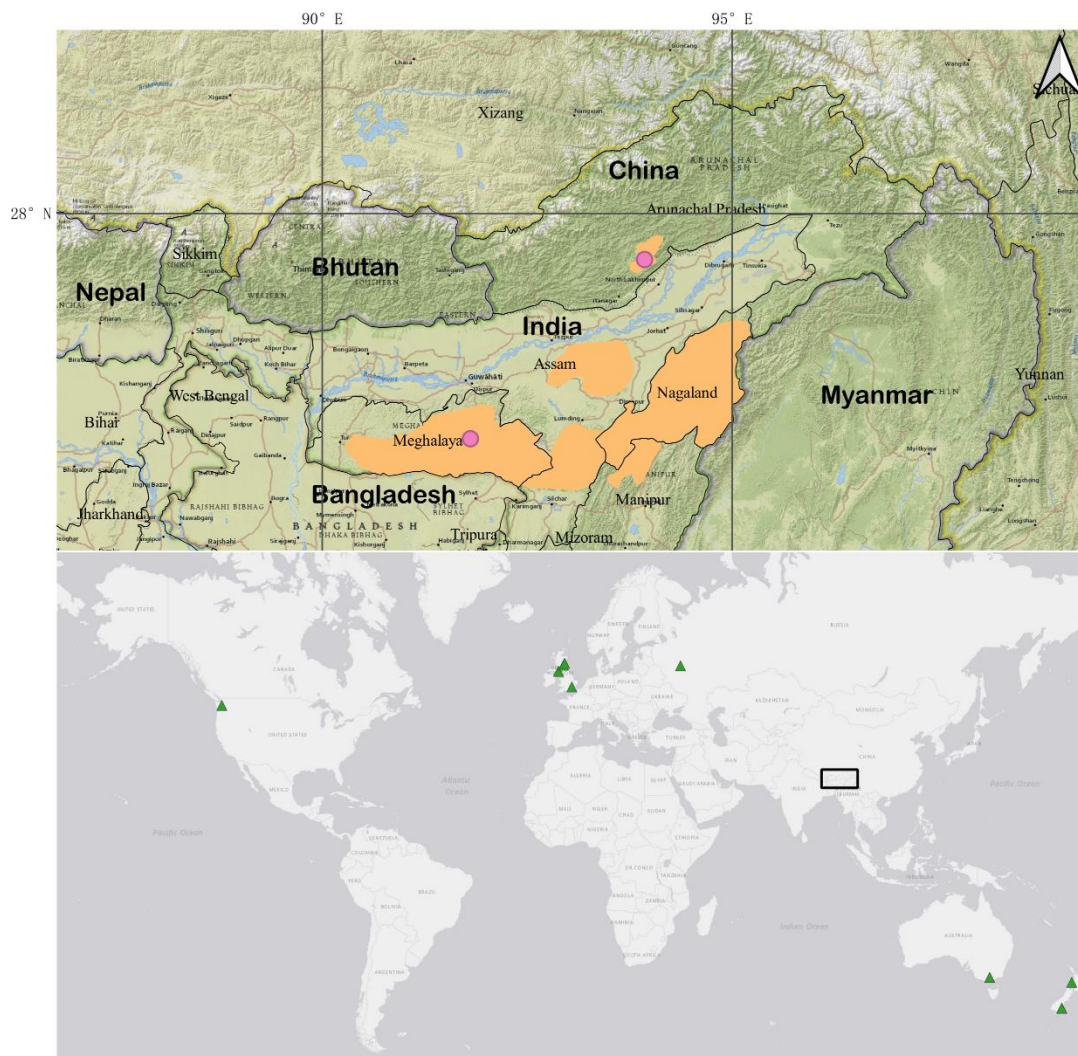
Distribution: India (Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland) \*

Altitude: 1,400–2,230 m

No. of *ex situ* sites/countries: 9/5

No. of (mapped) wild sources: (2) 4

No. of wild accessions: 7



\* According to Mao et al. (2017) and the location of specimens in Assam, Meghalaya and Nagaland at 1,220–2,135m (Davidian, 1982). The Red List (Gibbs et al., 2011) notes as Arunachal Pradesh, Meghalaya, Nagaland.

## 24. *Rhododendron goreri* Davidian

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IUCN Red List status: NE

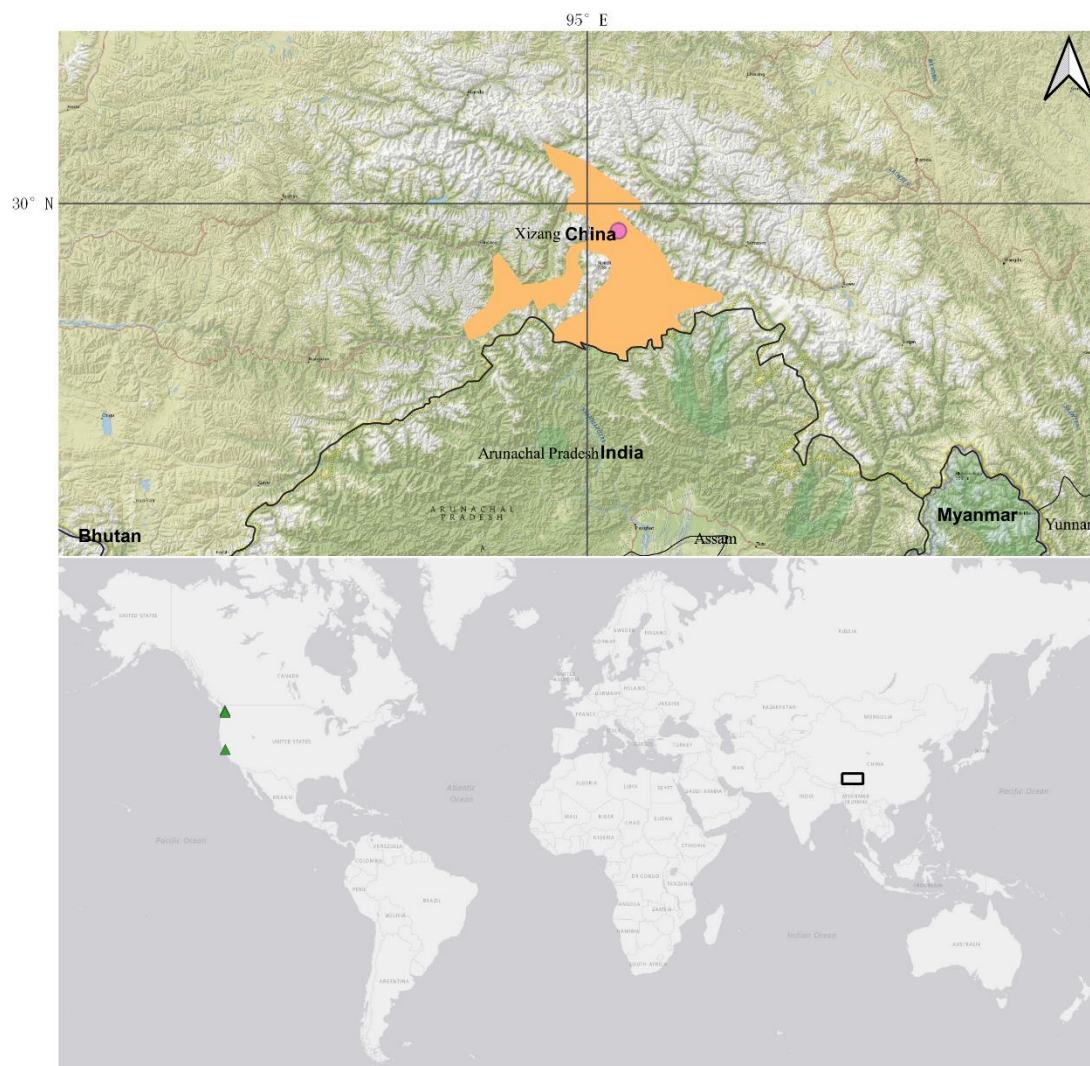
Distribution: China (SE Xizang)

Altitude: 2,020–2,188 m

No. of *ex situ* sites/countries: 3/1

No. of (mapped) wild sources: (1) 3

No. of wild accessions: 8



## 25. *Rhododendron grothausii* Davidian

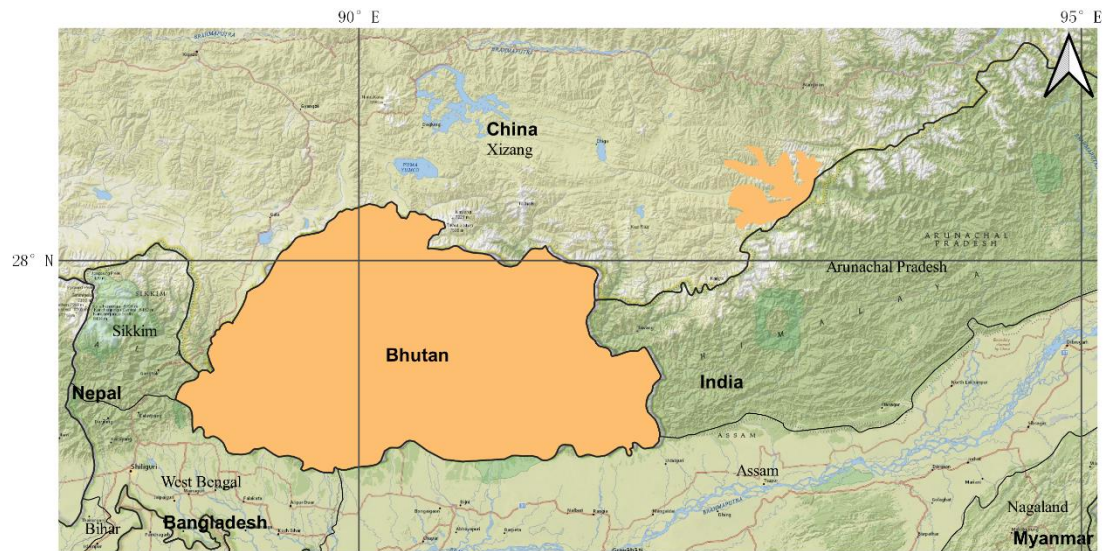
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IUCN Red List status: NE

Distribution: China (S Xizang), Bhutan

Altitude: 2,593–2,745 m

Not in cultivation.





## 26. *Rhododendron horlickianum* Davidian

IUCN Red List status: **DD** (Gibbs et al., 2011)

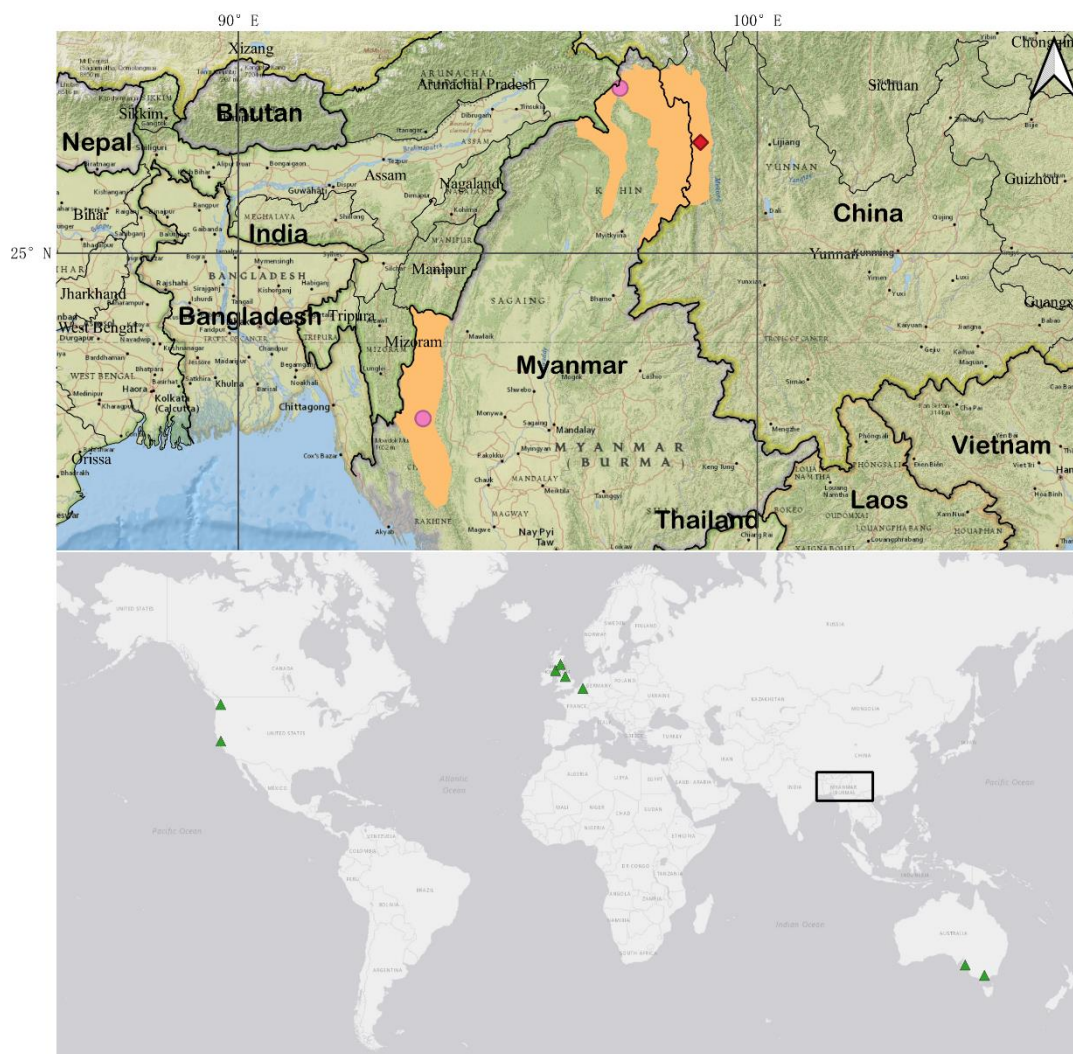
Distribution: N and W Myanmar, China (NW Yunnan) \*

Altitude: 1,220–2,135 m

No. of *ex situ* sites/countries: 8/4

No. of (mapped) wild sources: (3) 5

No. of wild accessions: 6



\* N Myanmar and China (NW Yunnan) are newly added according to mapped distribution in the Red List (Gibbs et al., 2011) and location of wild accessions. This species is however not included in Flora of China (Fang et al., 2005).

## 27. *Rhododendron iteophyllum* Hutch.

Chamberlain et al. (1996) listed *R. iteophyllum* as a synonym of *R. formosum* var. *formosum*. Mao et al. (2017) suggested to separate *R. iteophyllum* out as a distinct species.

IUCN Red List status: NE

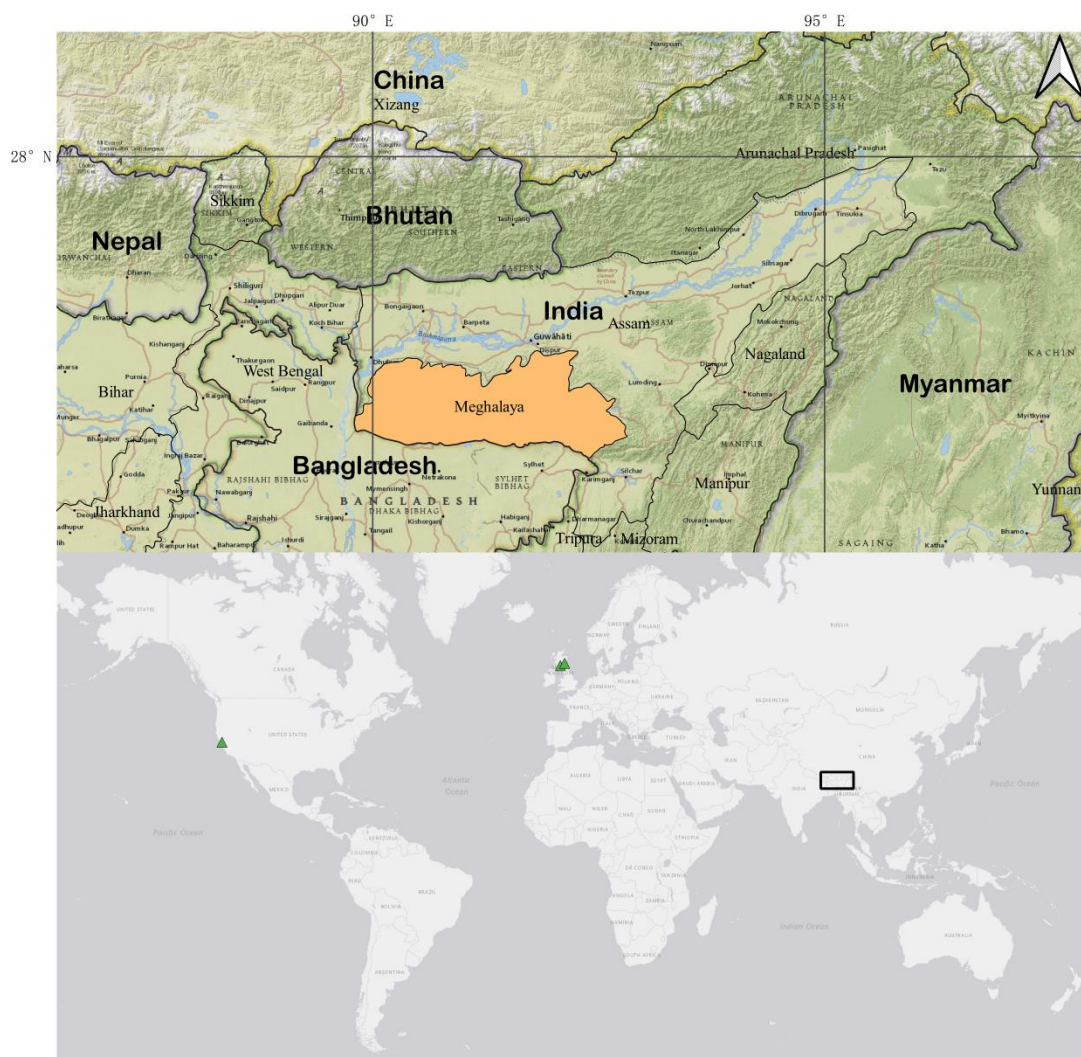
Distribution: India (Meghalaya)

Altitude: 890–1,500 m \*

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: 0

No. of wild accessions: 0



\* According to Mao et al. (2017).

There are living collections of *R. iteophyllum* at three botanic gardens that conserve *R. formosum* (Supplementary Table 1). Davidian (1982) noted there were wild collections at altitude 610–1,830 m. However, no wild collection is noted as *R. iteophyllum* in our datasheet. It may have been conserved under *R. formosum* due to unresolved taxonomy (Cullen, 1980).

## 28. *Rhododendron johnstoneanum* G.Watt. ex Hutch.

IUCN Red List status: globally LC (Gibbs et al., 2011), EN in India (Mizoram)

(<https://www.nationalredlist.org/>)

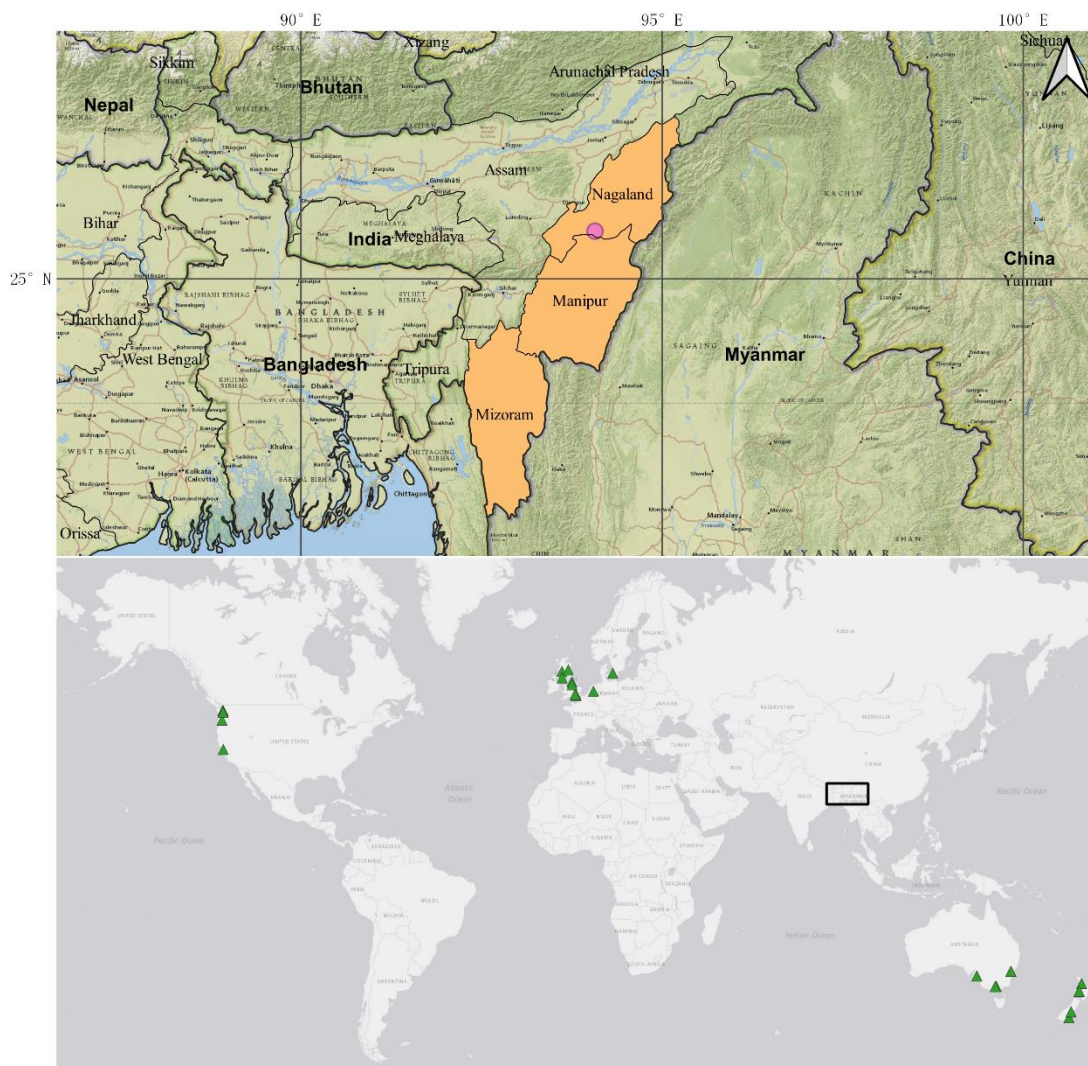
Distribution: India (Manipur, Mizoram, Nagaland) \*

Altitude: 1,830–3,355 m

No. of *ex situ* sites/countries: 22/6

No. of (mapped) wild sources: (1) 6

No. of wild accessions: 18



\* Cullen (1980, pp 44–47) noted a specimen from western central Myanmar (Mindat ridge, KW #22200) that may be a variant of *R. johnstoneanum*. However, no other wild record of this species is found in this study.

## 29. *Rhododendron kiangsiense* W.P.Fang

IUCN Red List status: globally NT (Gibbs et al., 2011), EN in China (Qin et al., 2017)

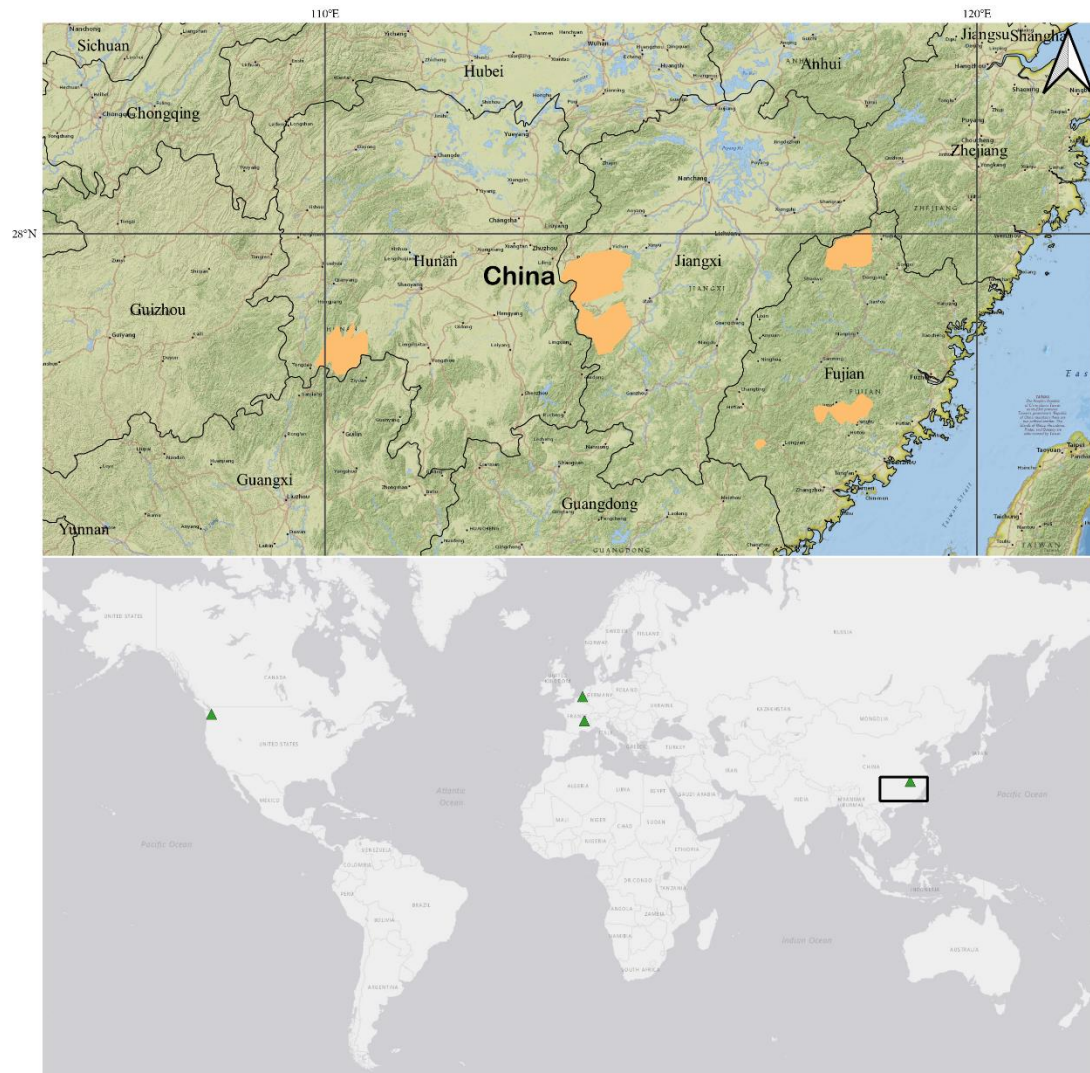
Distribution: China (W Jiangxi, Fujian, SW Hunan)

Altitude: 1,100–1,500 m

No. of *ex situ* sites/countries: 4/4

No. of (mapped) wild sources: (0) 1

No. of wild accessions: 1



### 30. *Rhododendron kuomeianum* Y.H. Chang, J.Nielsen & Y.P. Ma

IUCN Red List status: **DD** (Chang et al., 2021)

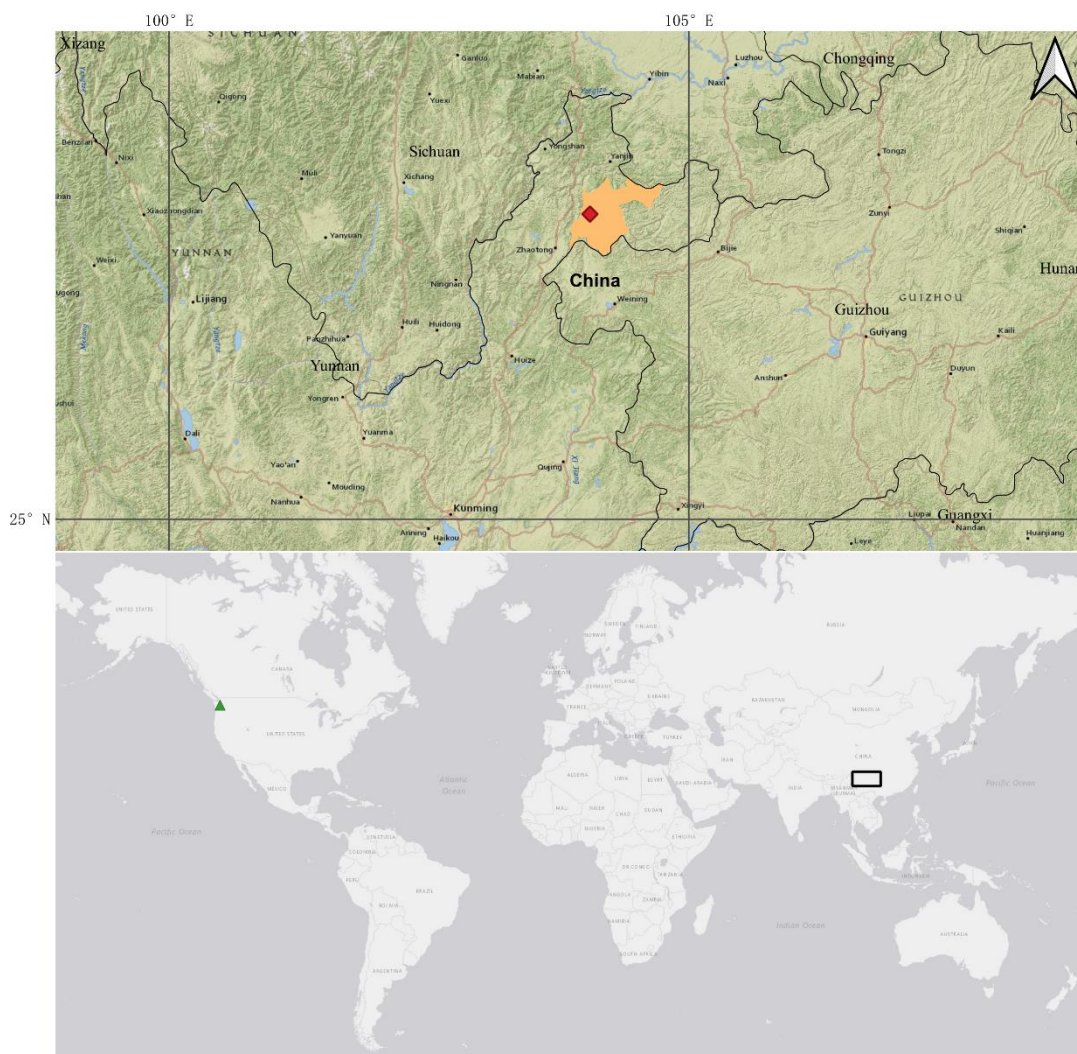
Distribution: China (NE Yunnan)

Altitude: 1,800–2,000 m

No. of *ex situ* sites/countries: 1/1

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 1 \*



\* One wild accession is in cultivation at *Rhododendron* Species Botanical Garden, USA, collected from the area where the type specimen was found (Supplementary Table 2).

### 31. *Rhododendron leptocladon* Dop

Syn: *R. nemorosum* R.C.Fang (No accessions in cultivation under this name)

IUCN Red List status: globally **VU** (Gibbs et al., 2011), DD in China (MEP-CAS, 2013)

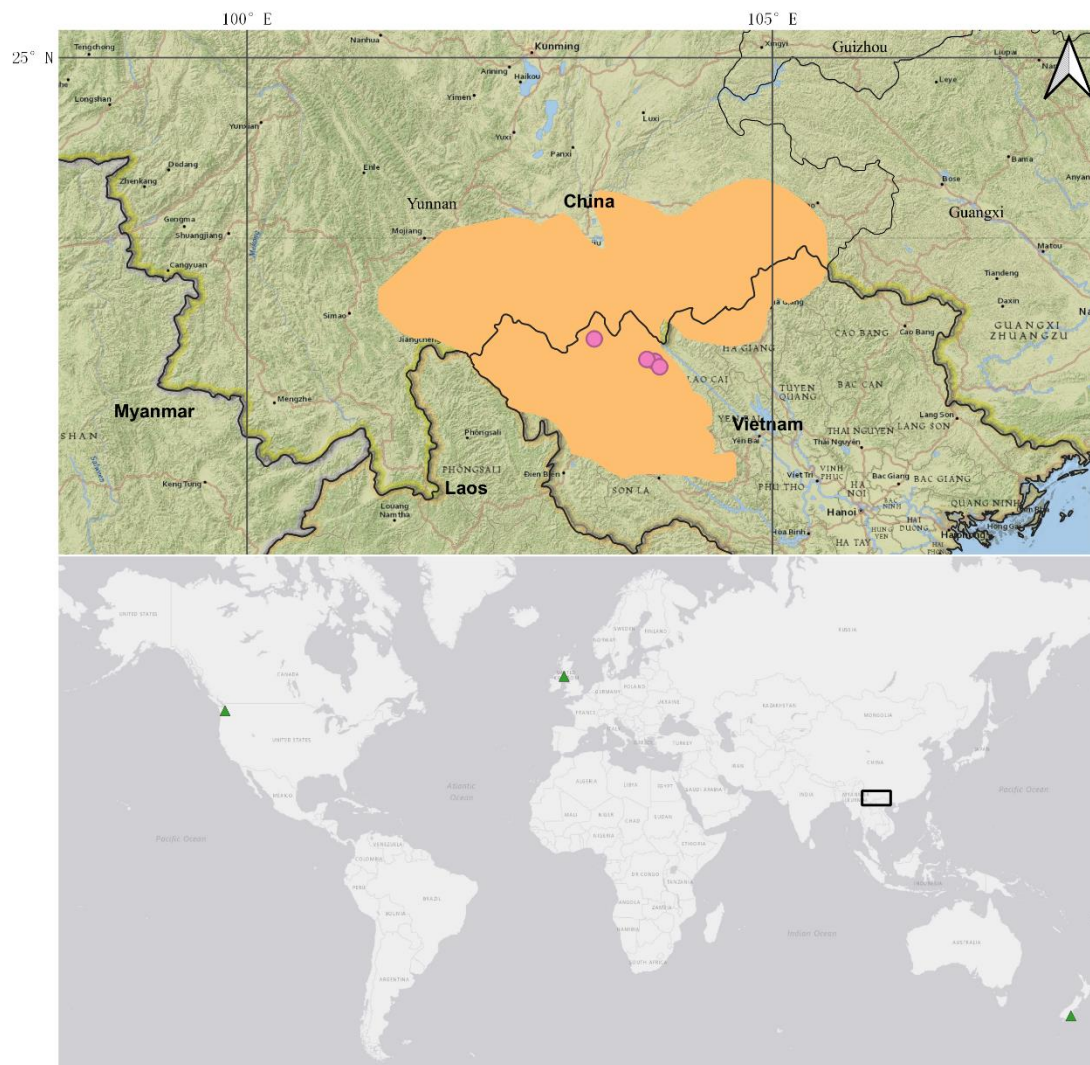
Distribution: China – Vietnam border region

Altitude: 2,000–2,300 m

No. of *ex situ* sites/countries: 3/3

No. of (mapped) wild sources: (4) 6

No. of wild accessions: 20



## 32. *Rhododendron levinei* Merr.

IUCN Red List status: globally DD (Gibbs et al., 2011), NT in China (MEP–CAS, 2013)

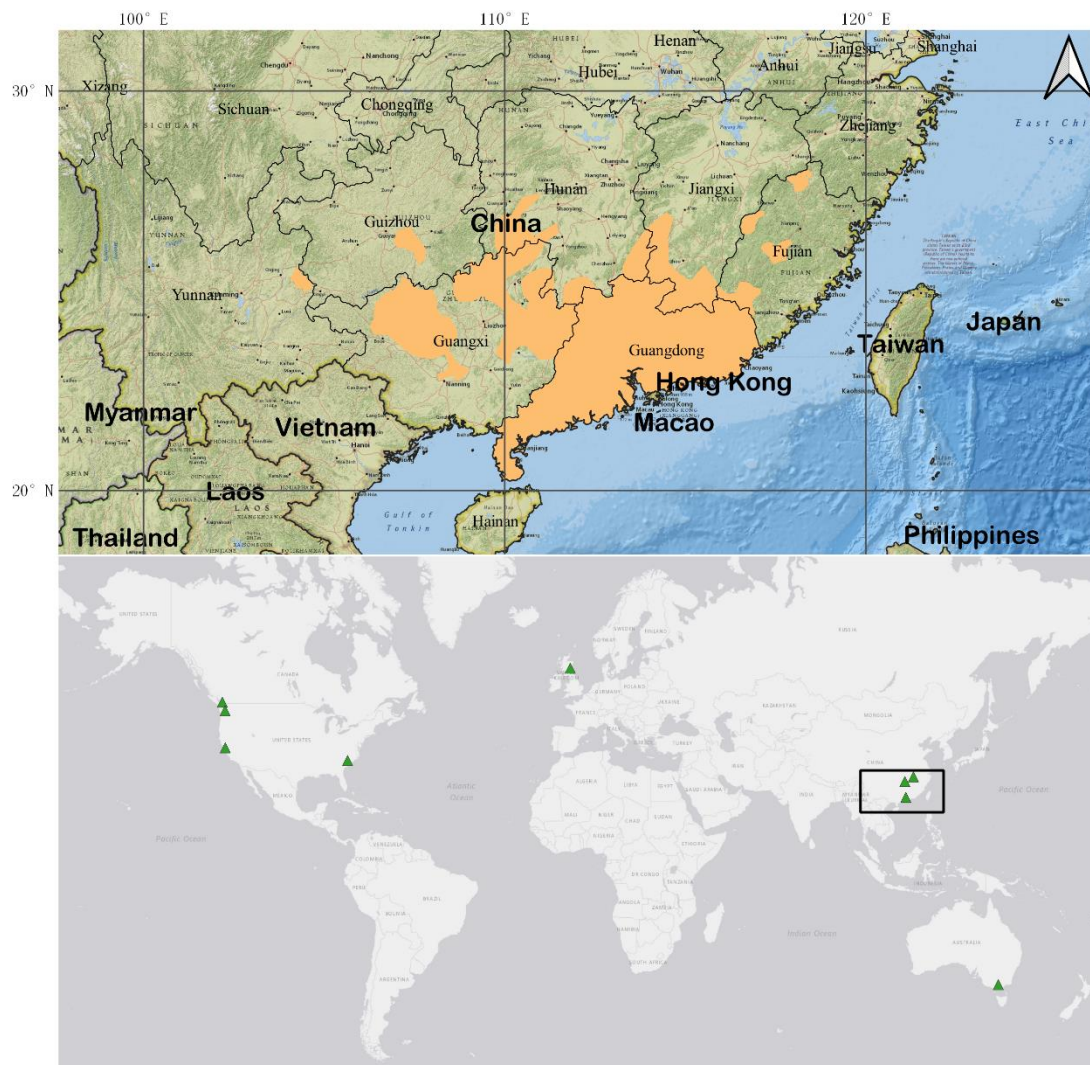
Distribution: China (Fujian, Guangdong, Guangxi, Guizhou, Hunan; S Jiangxi and E Yunnan? (Fang et al., 2011). Lacking data

Altitude: 800–1,000 m (Feng, 1992); 1,300–1,500 m (Fang et al., 2005)

No. of *ex situ* sites/countries: 9/5

No. of (mapped) wild sources: (0) 4 \*

No. of wild accessions: 13



\* No wild accession was recorded with provenance data due to poor documentation.

### 33. *Rhododendron liliiflorum* H.Lév.

IUCN Red List status: globally NT (Gibbs et al., 2011), LC in China (MEP–CAS, 2013)

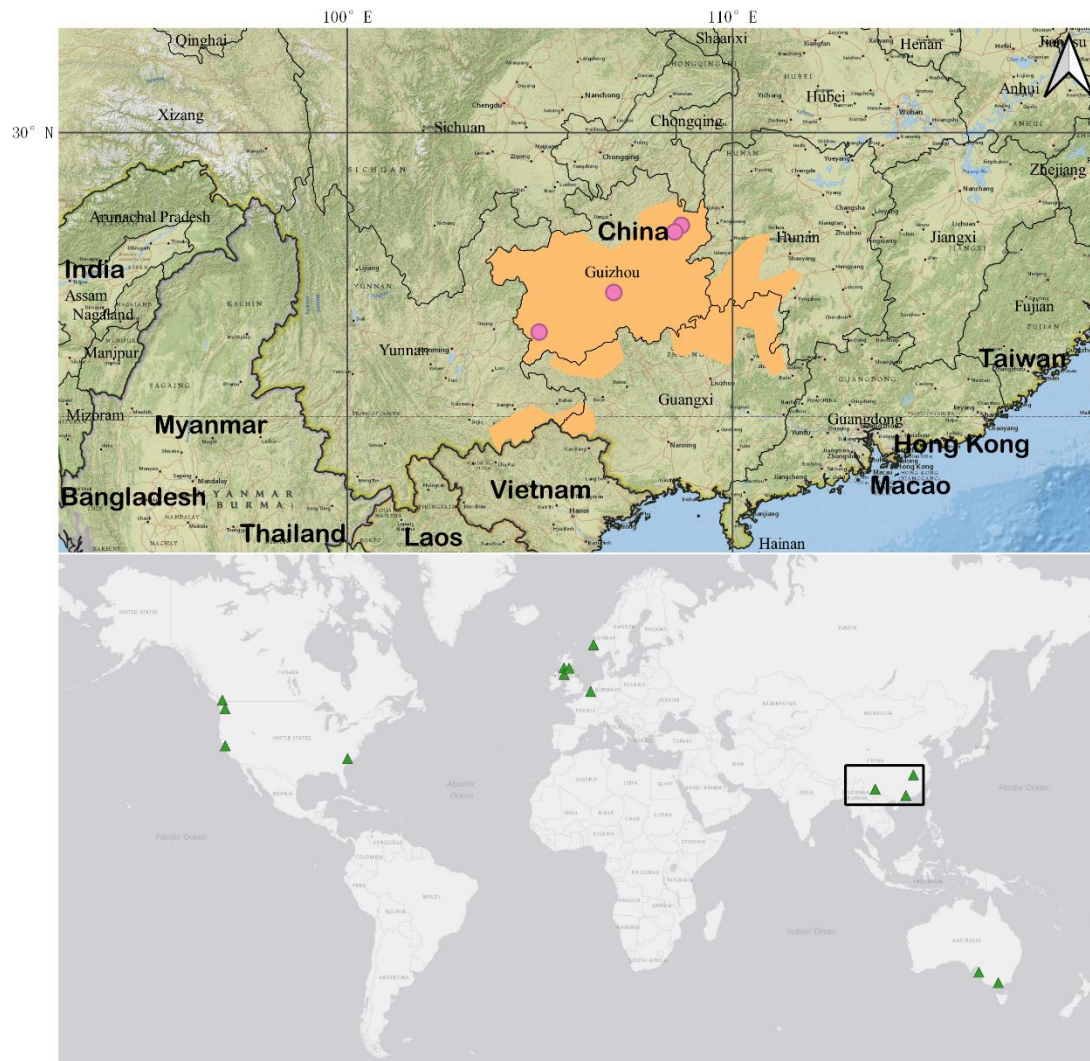
Distribution: China (NE & W Guangxi, Guizhou, SW Hunan, SE Yunnan)

Altitude: 750–1,900 m (Feng, 1992); 600–1,400 m (Fang et al., 2005)

No. of *ex situ* sites/countries: 14/7

No. of (mapped) wild sources: (4) 6

No. of wild accessions: 29





### 34. *Rhododendron lindleyi* T.Moore

IUCN Red List status: globally **LC** (Gibbs et al., 2011), **VU** in China (Qin et al., 2017)

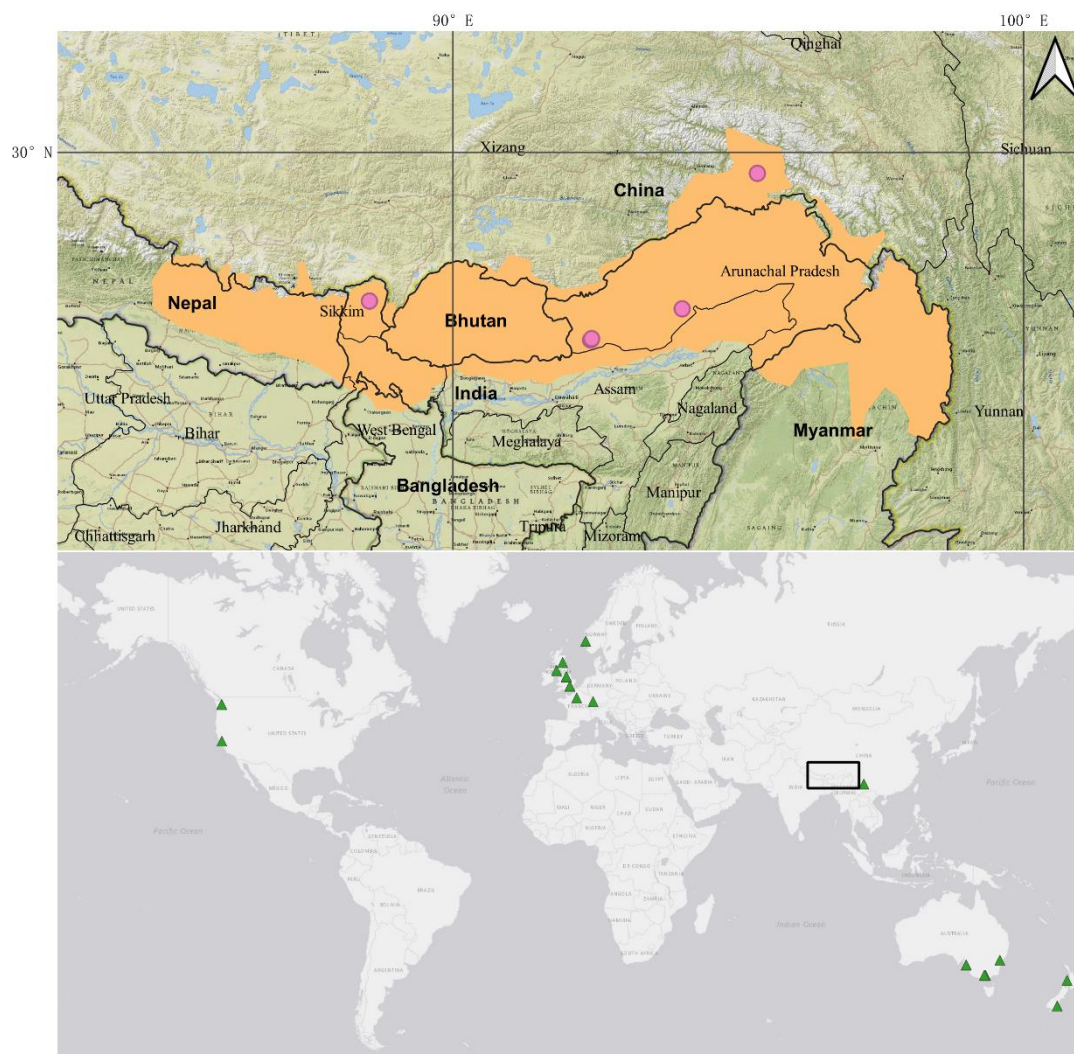
Distribution: N Bangladesh, Bhutan, China (S Xizang), India (N India, Sikkim), N Myanmar, E Nepal

Altitude: 1,600–3,355 m

No. of *ex situ* sites/countries: 17/8

No. of (mapped) wild sources: (6) 10

No. of wild accessions: 18



### 35. *Rhododendron linearilobum* R.C. Fang & A.L.Zhang

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IUCN Red List status: globally CR (Gibbs et al., 2011), DD in China (MEP-CAS, 2013)

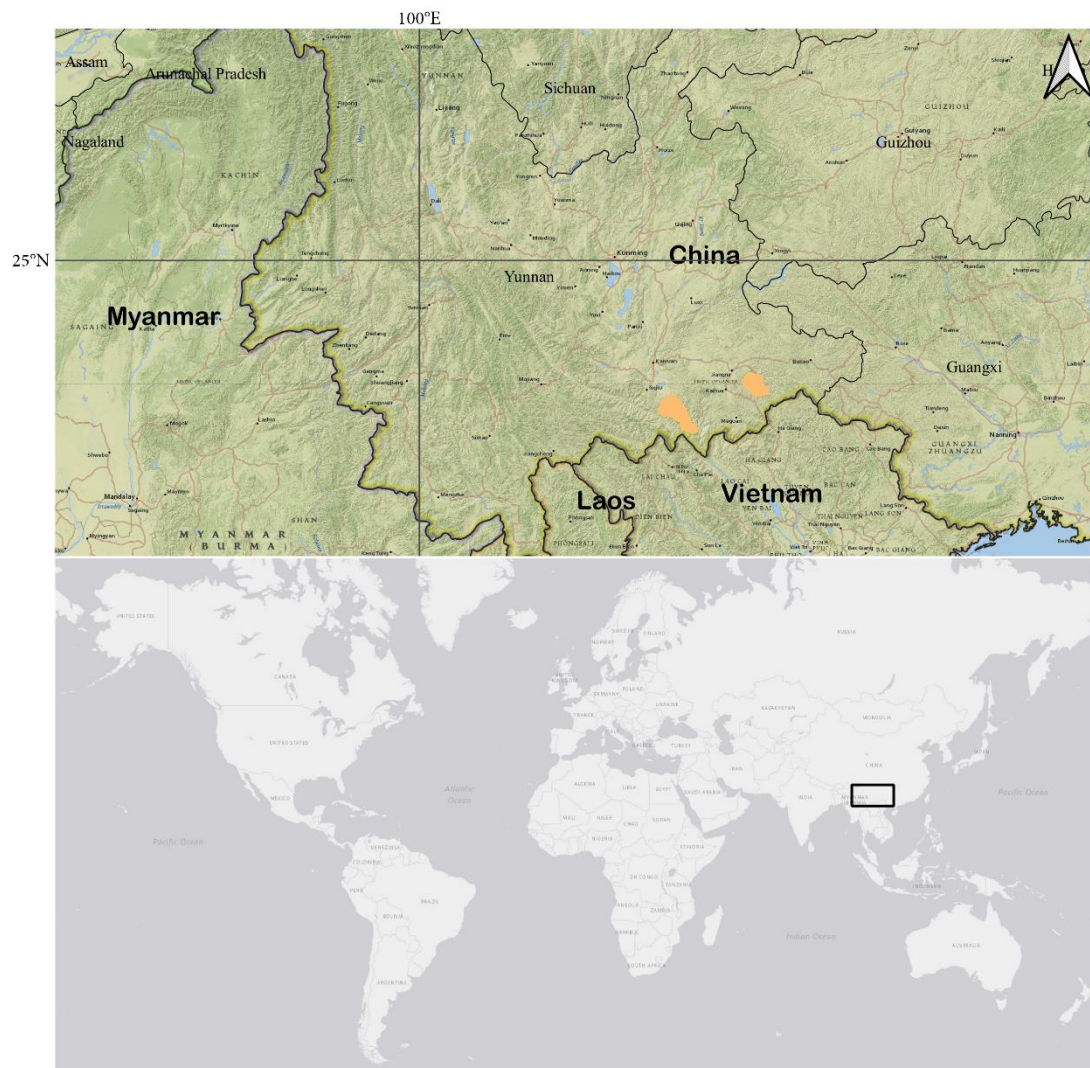
Distribution: China (SE Yunnan)

Altitude: 1,400–2,200 m

No. of *ex situ* sites/countries: 1/1

No. of (mapped) wild sources: 0

No. of wild accessions: 0



### 36. *Rhododendron ludwigianum* Hosseus

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IUCN Red List status: **DD** (Gibbs et al., 2011)

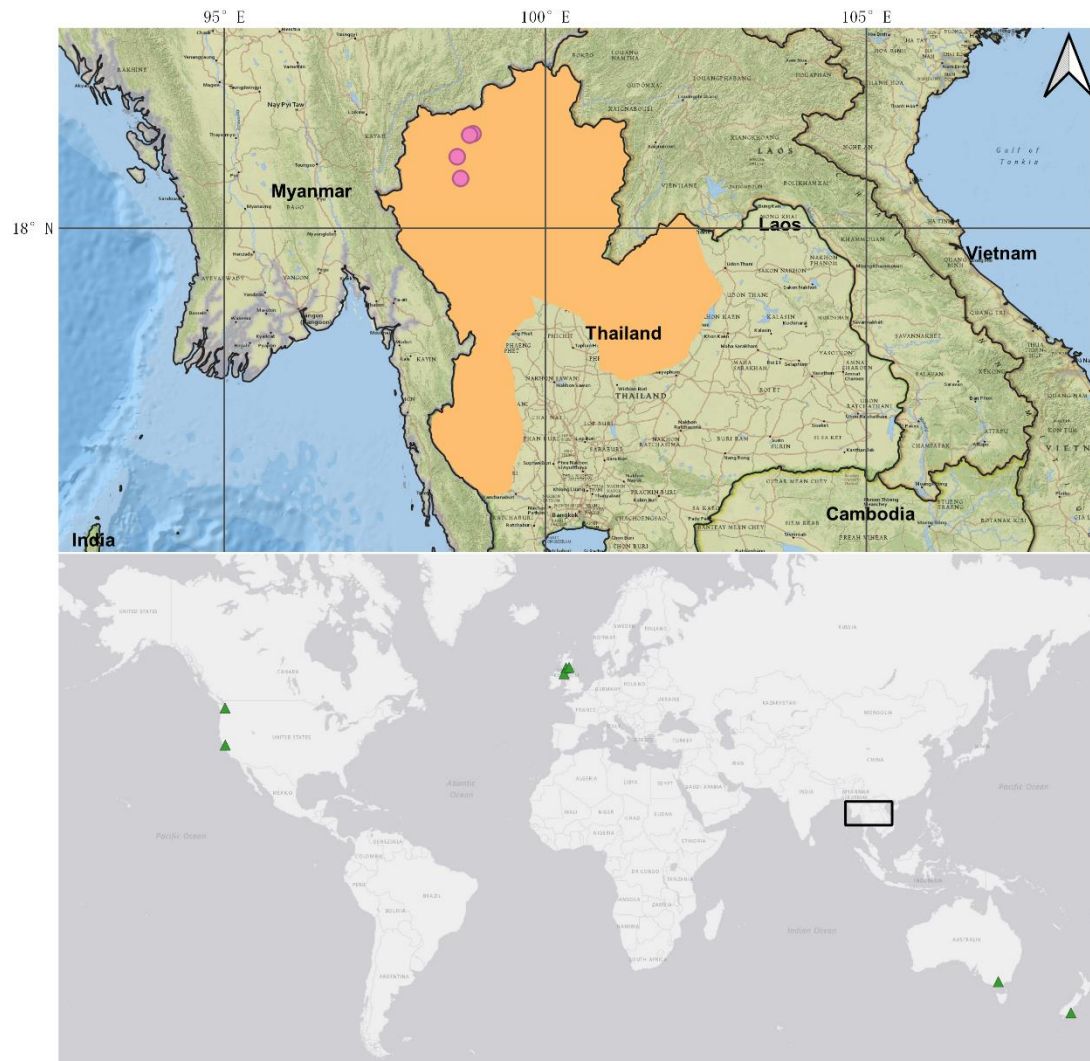
Distribution: N Thailand

Altitude: 1,600–2,180 m

No. of *ex situ* sites/countries: 7/4

No. of (mapped) wild sources: (4) 4

No. of wild accessions: 8



### 37. *Rhododendron maddenii* Hook.f. ssp. *crassum* (Franch.) Cullen

Note: data below including synonyms *R. manipurense* Balf.f. & Watt and *R. odoriferum* Hutch.

IUCN Red List status: **LC** (MEP–CAS, 2013)

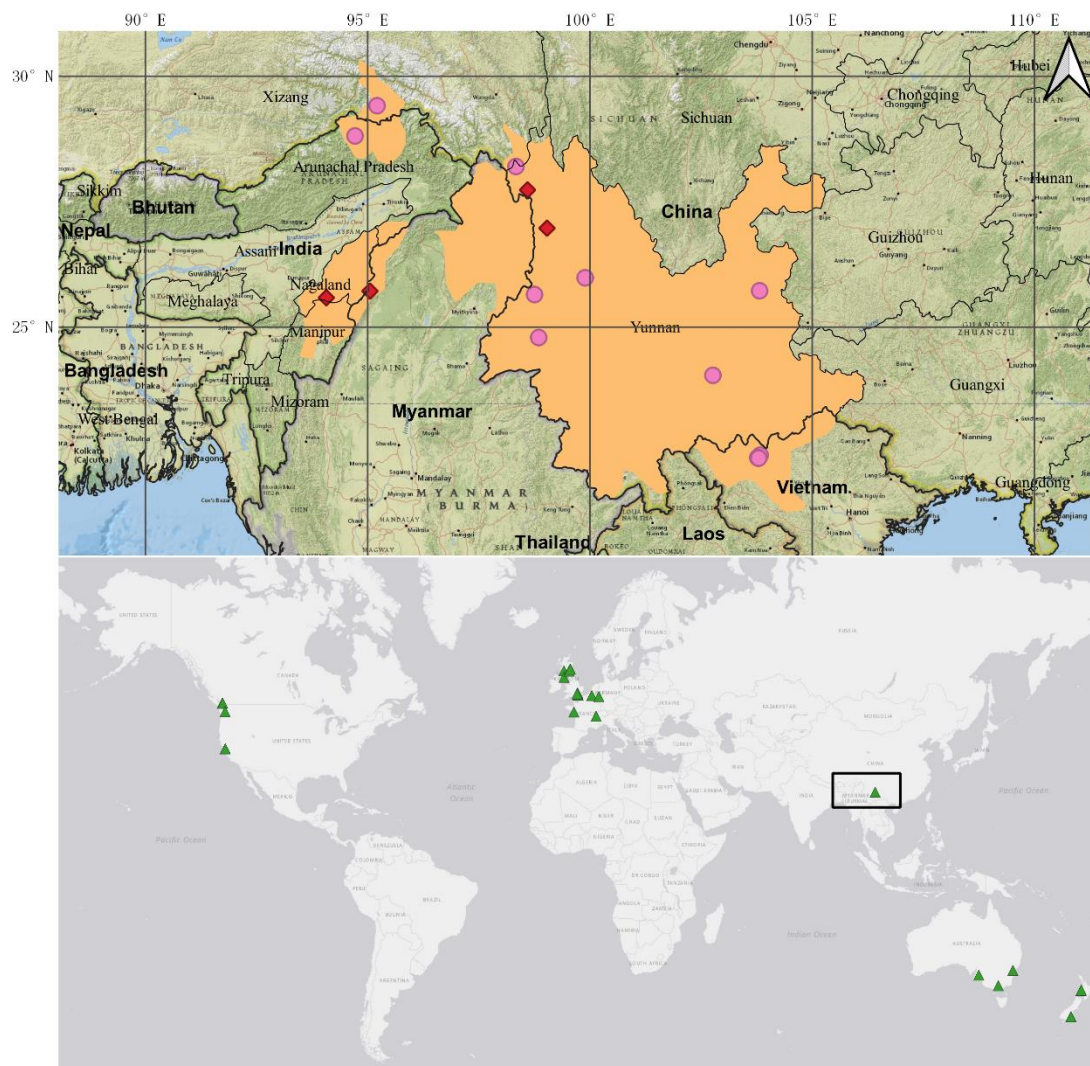
Distribution: China (S Xizang, Yunnan), India (Arunachal Pradesh, Nagaland, Manipur), N Myanmar, N Vietnam

Altitude: 1,500–3,200 m

No. of *ex situ* sites/countries: 22/10

No. of (mapped) wild sources: (20) 38

No. of wild accessions: 69



### 38. *Rhododendron maddenii* Hook.f. (ssp. *maddenii*)

Note: data below including synonyms *R. brachysiphon* Hutch., *R. calophyllum* Nutt. and *R. polyandrum* Hutch.

IUCN Red List status: **LC** (MEP–CAS, 2013; IUCN, 2018)

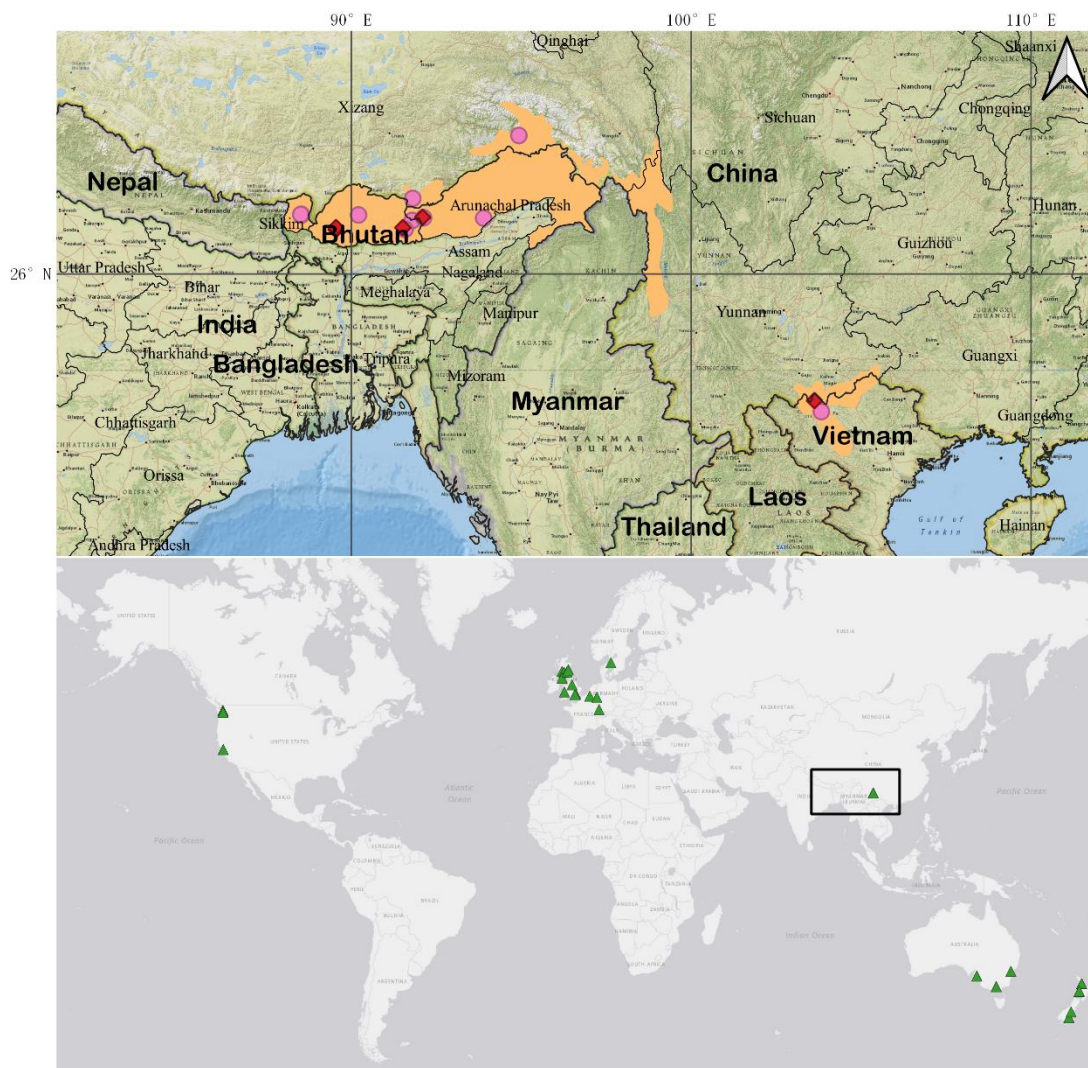
Distribution: China (S Xizang, Yunnan), India (Arunachal Pradesh, Sikkim), Bhutan, N Vietnam

Altitude: ca. 2,600 m

No. of *ex situ* sites/countries: 26/8

No. of (mapped) wild sources: (16) 28

No. of wild accessions: 58



### 39. *Rhododendron megacalyx* Balf.f.

IUCN Red List status: globally LC (Gibbs et al., 2011), VU in China (Qin et al., 2017)

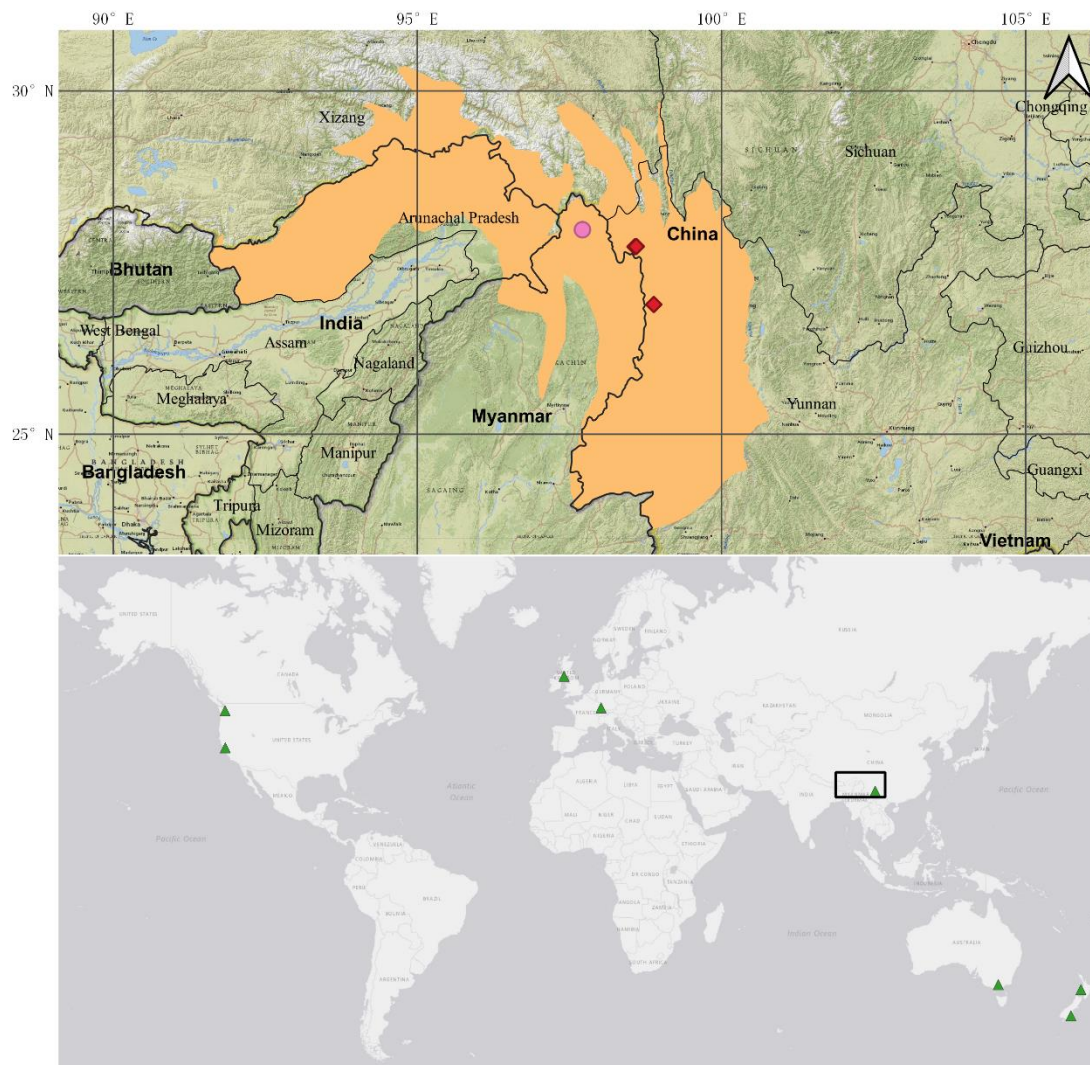
Distribution: China (SE Xizang, NW Yunnan), NE India (Arunachal Pradesh), NE Myanmar

Altitude: 2,200–3,000 m

No. of *ex situ* sites/countries: 8/6

No. of (mapped) wild sources: (5) 5

No. of wild accessions: 13



#### 40. *Rhododendron mianningense* Z.J.Zhao

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IUCN Red List status: globally CR (Gibbs et al., 2011), LC in China (MEP-CAS, 2013)

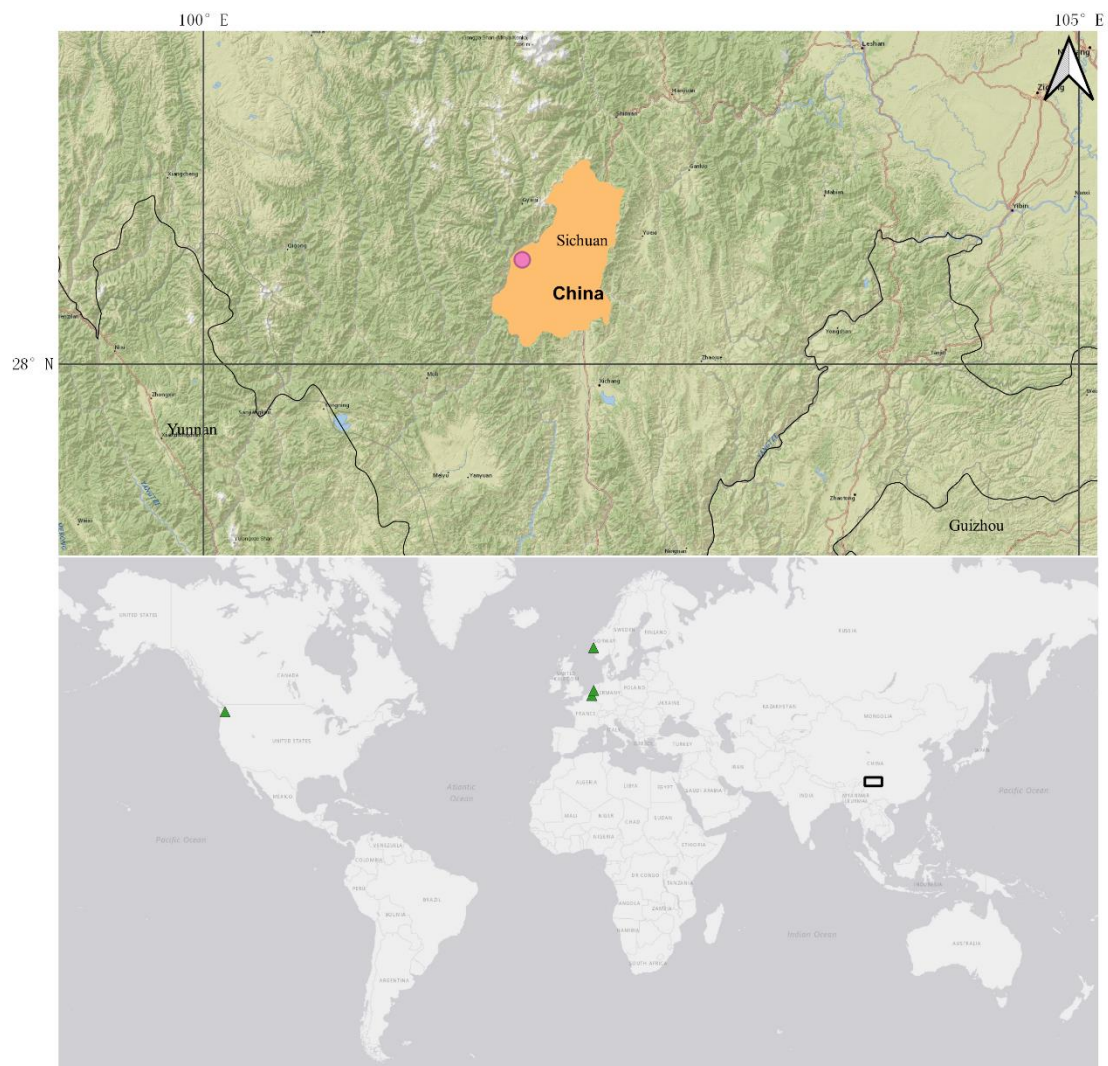
Distribution: China (Mianning in S Sichuan)

Altitude: ca. 3,500 m

No. of *ex situ* sites/countries: 4/4

No. of (mapped) wild sources: (1) 1

No. of wild accessions: 1



## 41. *Rhododendron nuttallii* Booth

IUCN Red List status: globally **NT** (Gibbs et al., 2011), **VU** in China (Qin et al., 2017)

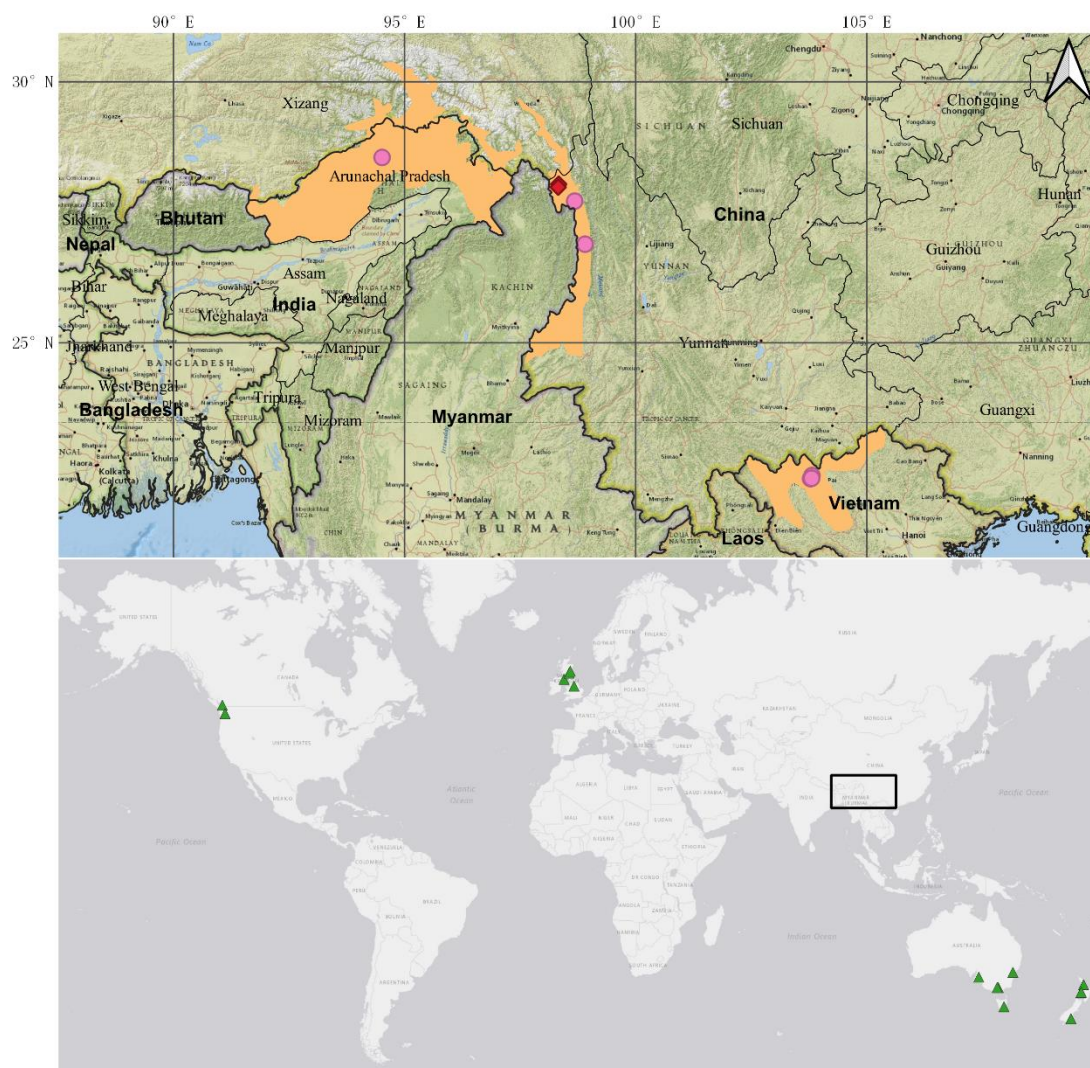
Distribution: China (SE Xizang, NW Yunnan \*), N India (Arunachal Pradesh), N Vietnam, N Myanmar?

Altitude: 1,800–2,400 m

No. of *ex situ* sites/countries: 15/5

No. of (mapped) wild sources: (8) 16

No. of wild accessions: 31



\* Distribution in NW Yunnan was not recorded by Feng (1992) and Fang et al. (2011), but by Gibbs et al. (2011). Specimens from this area may possibly be of *R. sinonuttallii*.



## 42. *Rhododendron pachypodum* Balf. f. & W.W.Sm.

Syn: *R. supranubium* Hutch.

IUCN Red List status: **LC** (MEP–CAS, 2013; IUCN, 2018)

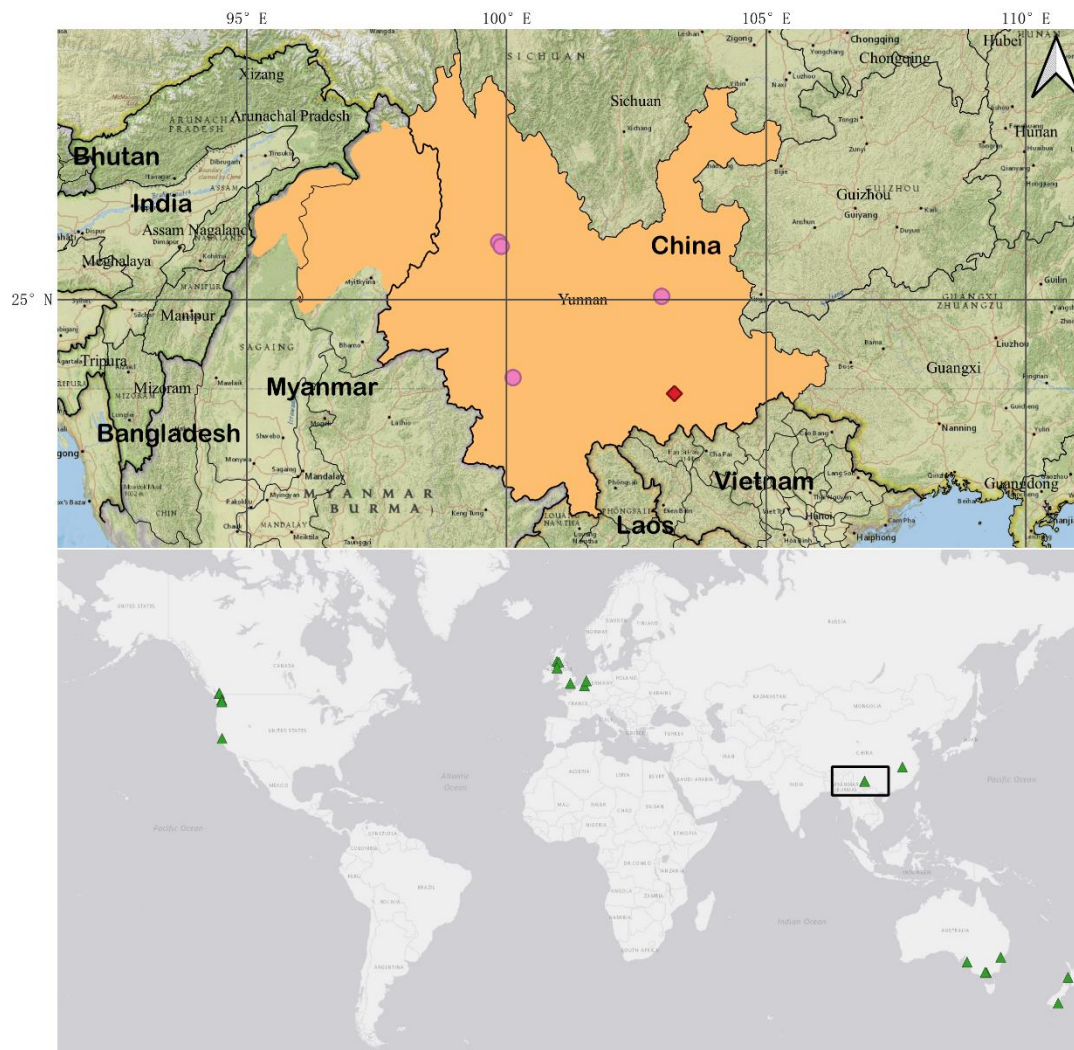
Distribution: China (Yunnan), N Myanmar \*

Altitude: 1,200–2,800(–3,100) m \* (*R. supranubium* 1,220–3,660 m)

No. of *ex situ* sites/countries: 20/8

No. of (mapped) wild sources: (5) 9

No. of wild accessions: 14



\* Altitude according to Flora of China (Fang et al., 2005) but the distribution is changed here from “NE Myanmar” to “N Myanmar” referring to the geographic description of “North Triangle”.

### 43. *Rhododendron parryae* Hutch.

IUCN Red List status: **LC** (Gibbs et al., 2011)

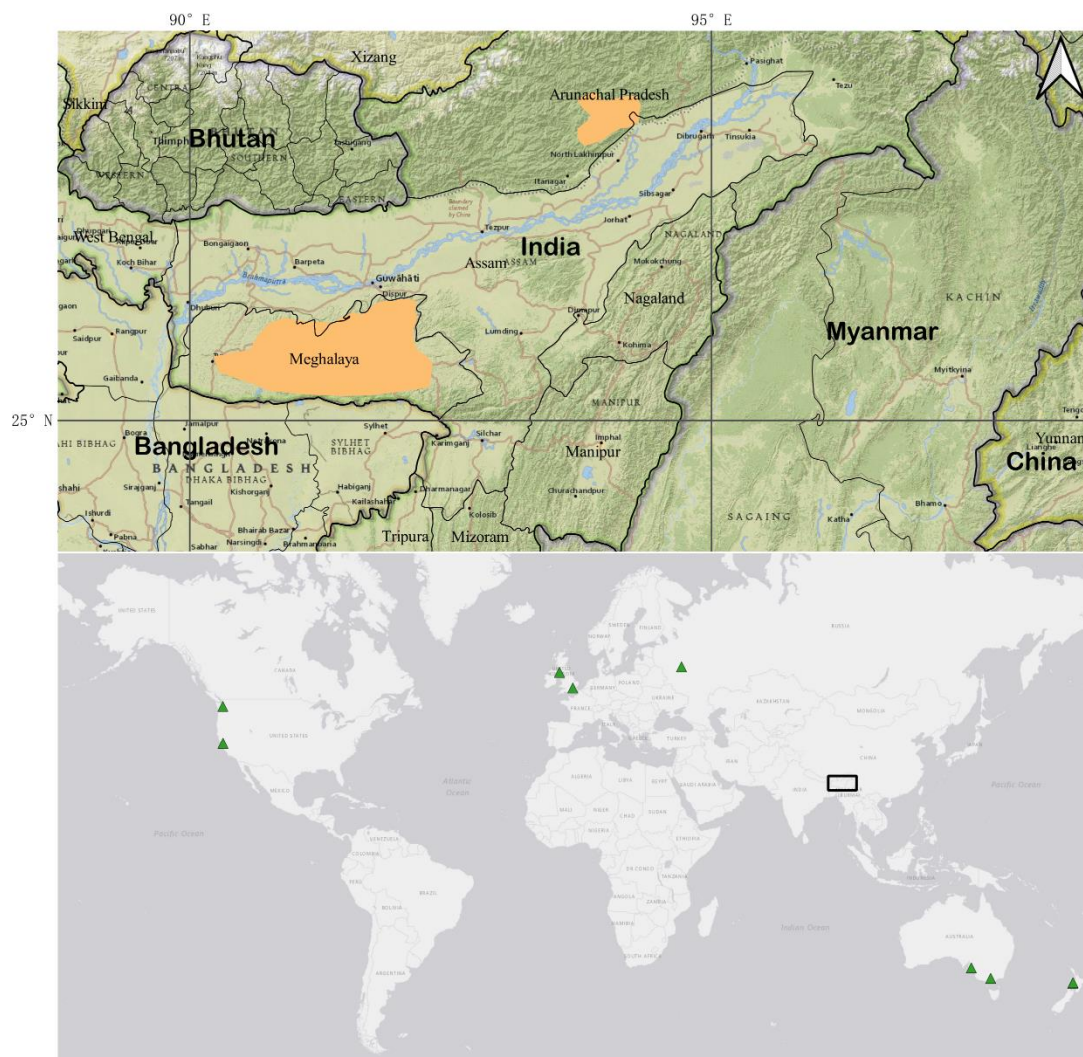
Distribution: India (Arunachal Pradesh, Meghalaya) \*

Altitude: 1,769–2,135 m

No. of *ex situ* sites/countries: 9/5

No. of (mapped) wild sources: (0) 1

No. of wild accessions: 1



\* According to locations of type specimens (Davidian, 1982), which were described as in “Assam” in 1927 and 1965. By then “Assam” included today’s Arunachal Pradesh, Assam, Meghalaya, Nagaland and Mizoram, which alerts modern readers/scholars to be careful about the administrative change when checking the documented plant collections before 1970s in this area.

#### 44. *Rhododendron pseudociliipes* Cullen

IUCN Red List status: globally VU (Gibbs et al., 2011), NT in China (MEP-CAS, 2013)

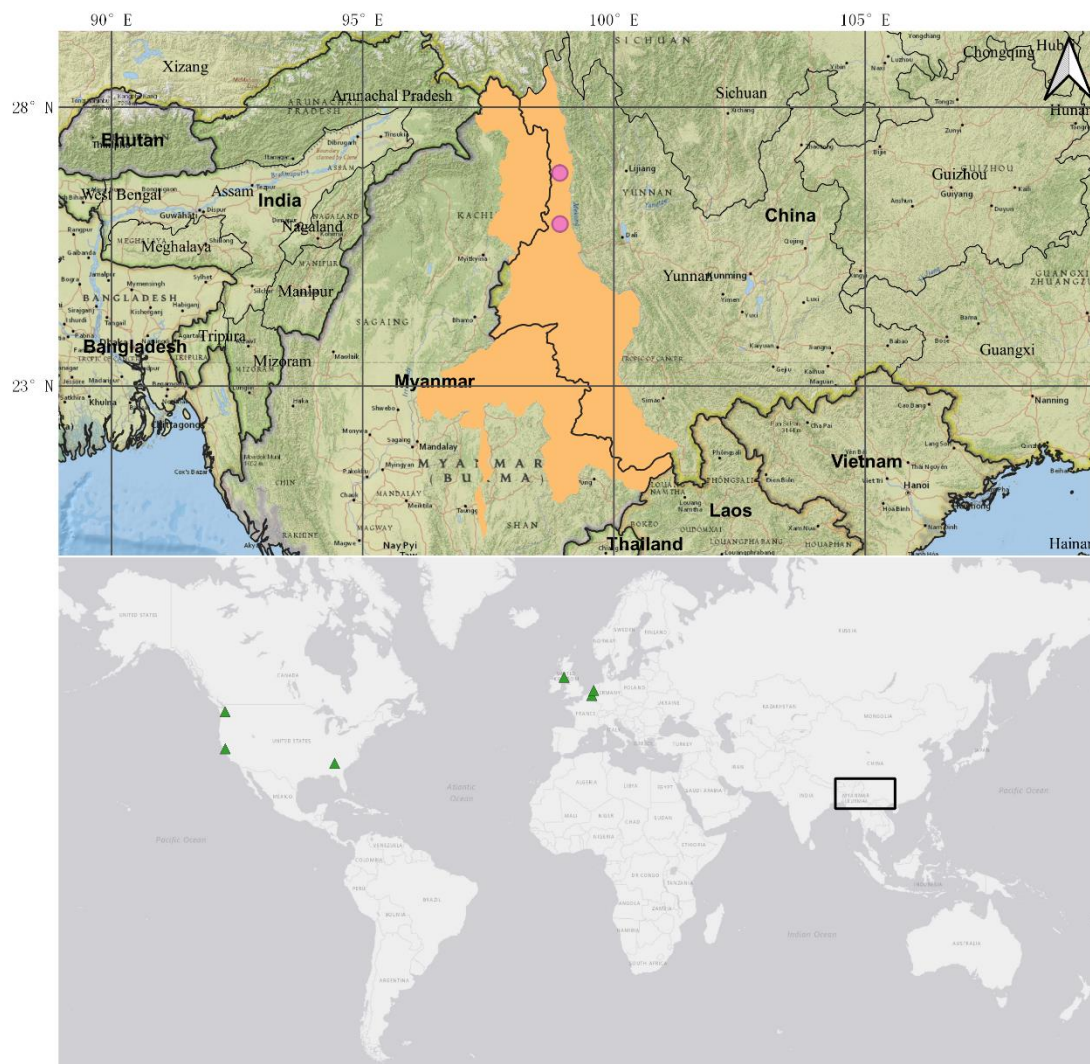
Distribution: China (NW Yunnan), NE Myanmar

Altitude: 2,400–3,100 m

No. of *ex situ* sites/countries: 6/4

No. of (mapped) wild sources: (2) 3

No. of wild accessions: 11



## 45. *Rhododendron pseudomaddenii* A.A.Mao & M.Bhaumik

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IUCN Red List status: **LC** (Mao & Bhaumik, 2015)

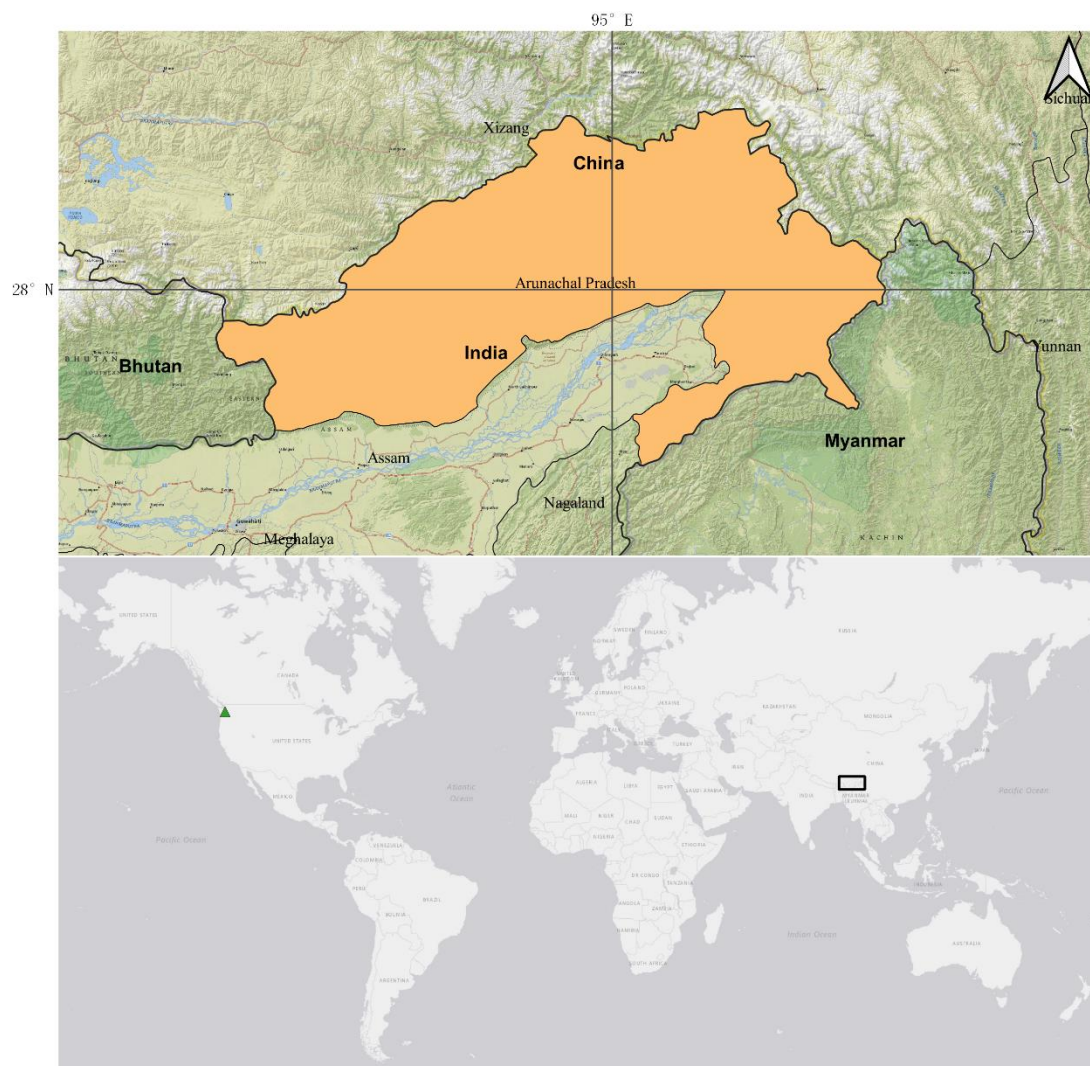
Distribution: India (Arunachal Pradesh)

Altitude: 1,900–3,000 m

No. of *ex situ* sites/countries: 1/1

No. of (mapped) wild sources: (0) 1

No. of wild accessions: 2



## 46. *Rhododendron rhombifolium* R.C.Fang

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IUCN Red List status: globally CR (Gibbs et al., 2011), **DD** in China (MEP-CAS, 2013)

Distribution: China (Yunnan)

Altitude: 1,800–1,900 m (Feng & Yang, 1999; Fang et al., 2005); 3,000–4,450 m (Li & Zhou, 2005);

No. of *ex situ* sites/countries: 2/1

No. of (mapped) wild sources: 0

No. of wild accessions: 0



#### 47. *Rhododendron roseatum* Hutch.

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IUCN Red List status: globally **VU** (Gibbs et al., 2011), NT in China (MEP-CAS, 2013)

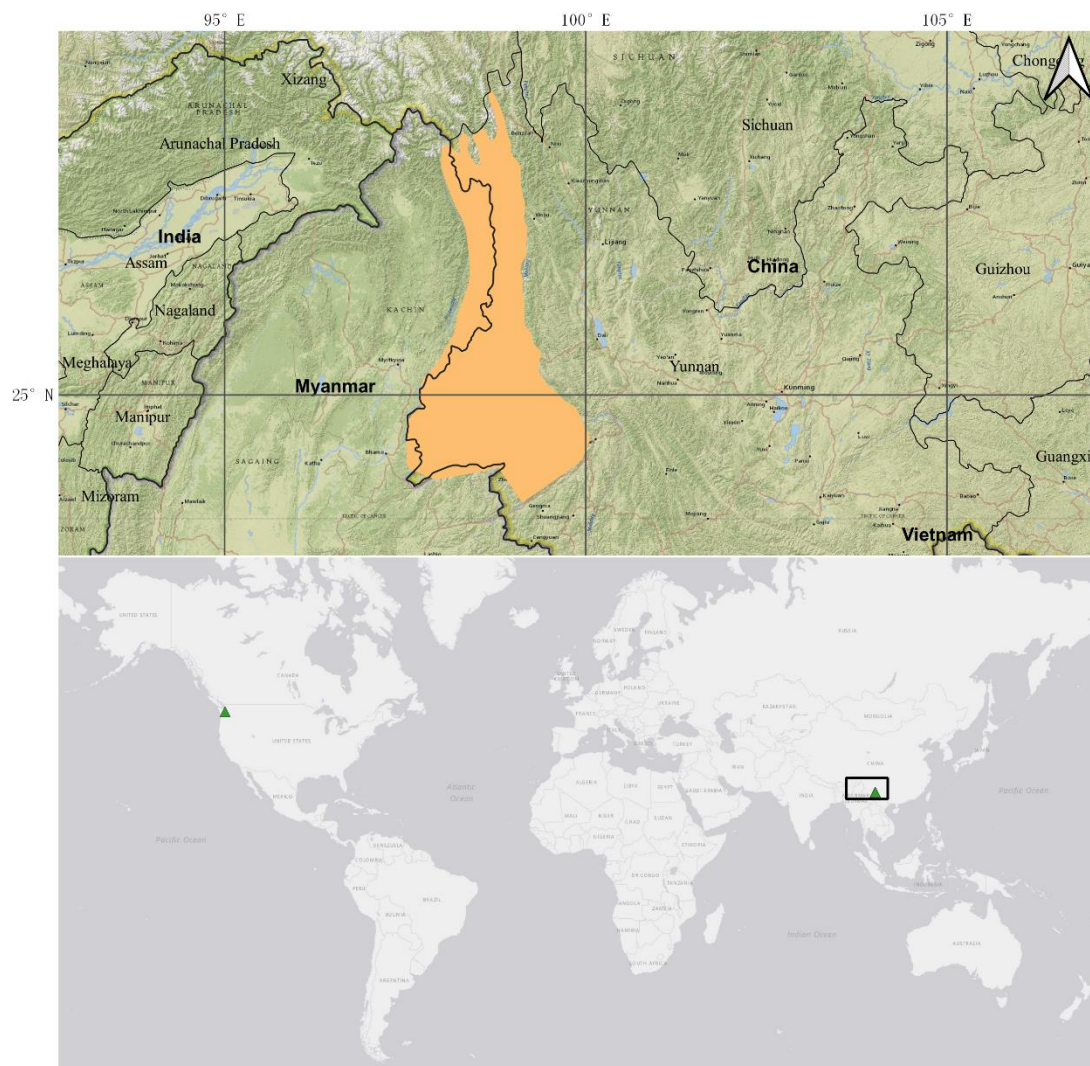
Distribution: China (Yunnan), NE Myanmar

Altitude: 2,000–3,000 m

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: 0

No. of wild accessions: 0



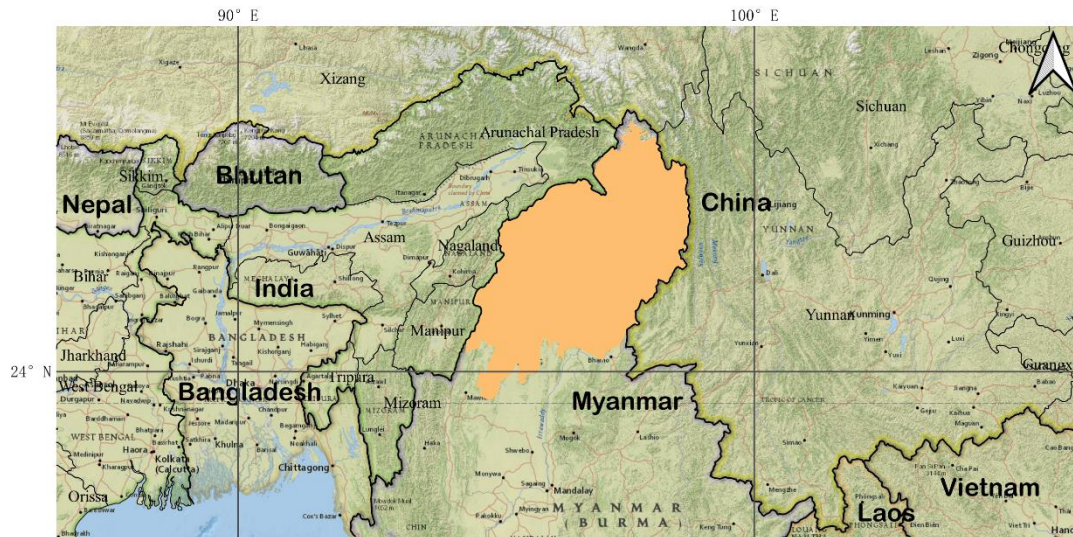
## 48. *Rhododendron rubrantherum* Kingdon–Ward

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IUCN Red List status: NE

Distribution: upper Burma (<https://www.ipni.org/n/333258-1>). Lacking data.

Not in cultivation.



*R. rubrantherum* was listed by Chamberlain et al. (1996), but there is no further information on taxonomy or distribution of this species (<http://www.worldfloraonline.org/taxon/wfo-0000405521>). There is no current concern about conservation as the species has not been assessed.

#### 49. *Rhododendron rufosquamosum* Hutch.

Note: Flora of China (Fang et al., 2005) listed *R. rufosquamosum* as a synonym of *R. pachypodum*, but other references (Cullen, 1980; Feng, 1988; Feng, 1992; Chamberlain et al., 1996) listed the two species separately.

IUCN Red List status: NE

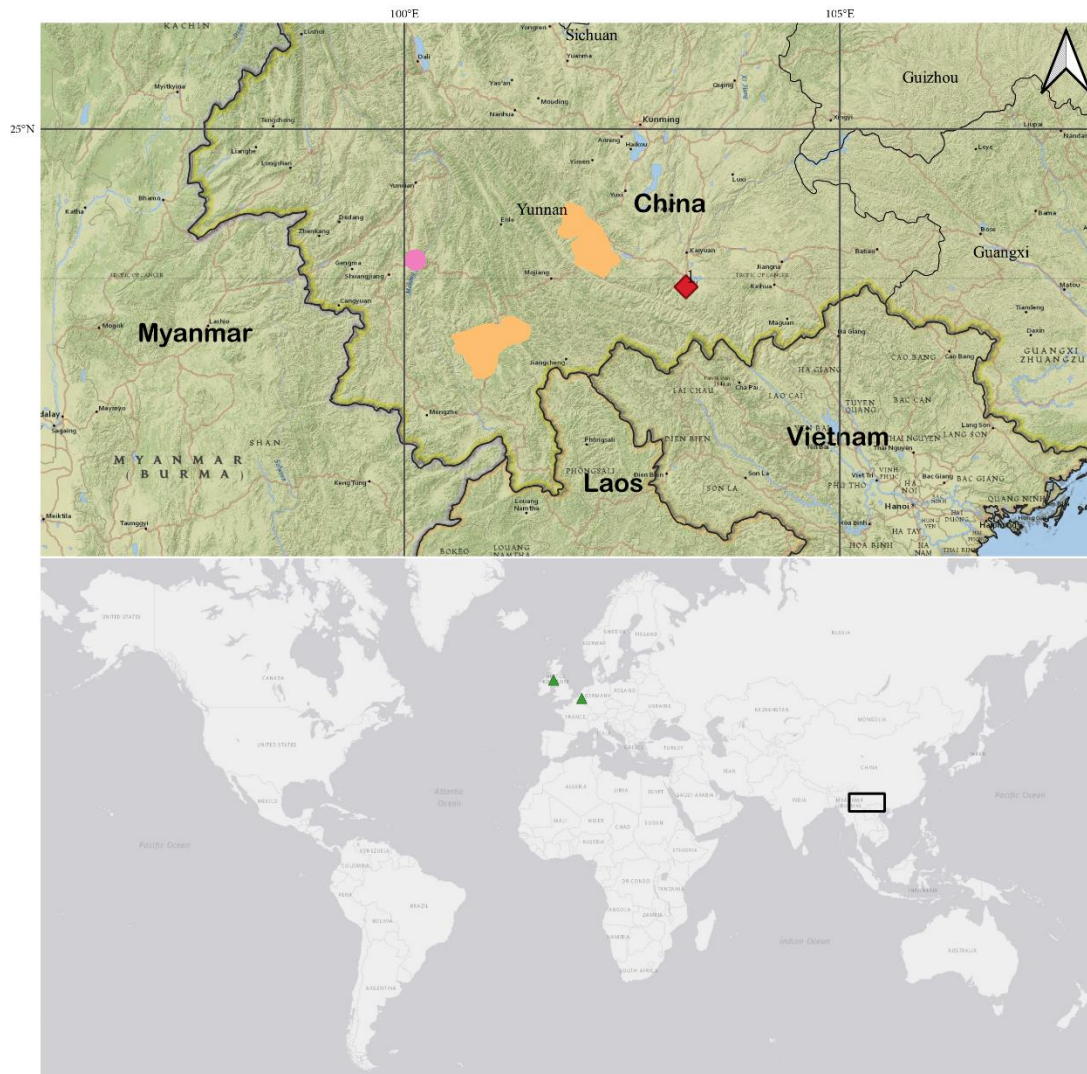
Distribution: China (S Yunnan)

Altitude: ca. 1,464 m (Davidian, 1982); ca. 2,000 m (Feng, 1992)

No. of *ex situ* sites/countries: 2/2

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 2 \*



\* Two possible wild collections (Supplementary Table 2):

1) *R. aff. rufosquamosum* KR#4303 as #19962587 cultivated in Royal Botanic Garden Edinburgh (Logan Garden);



2) *R. pachypodum/rufosquamosum?* JN#11076 as #17415 cultivated in Arboretum Wespelaar, Germany; Another accession was cultivated as #2012-0165 at University of British Columbia Botanic Garden but it died.

## 50. *Rhododendron scopulorum* Hutch.

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IUCN Red List status: globally VU (Gibbs et al., 2011), LC in China (MEP-CAS, 2013)

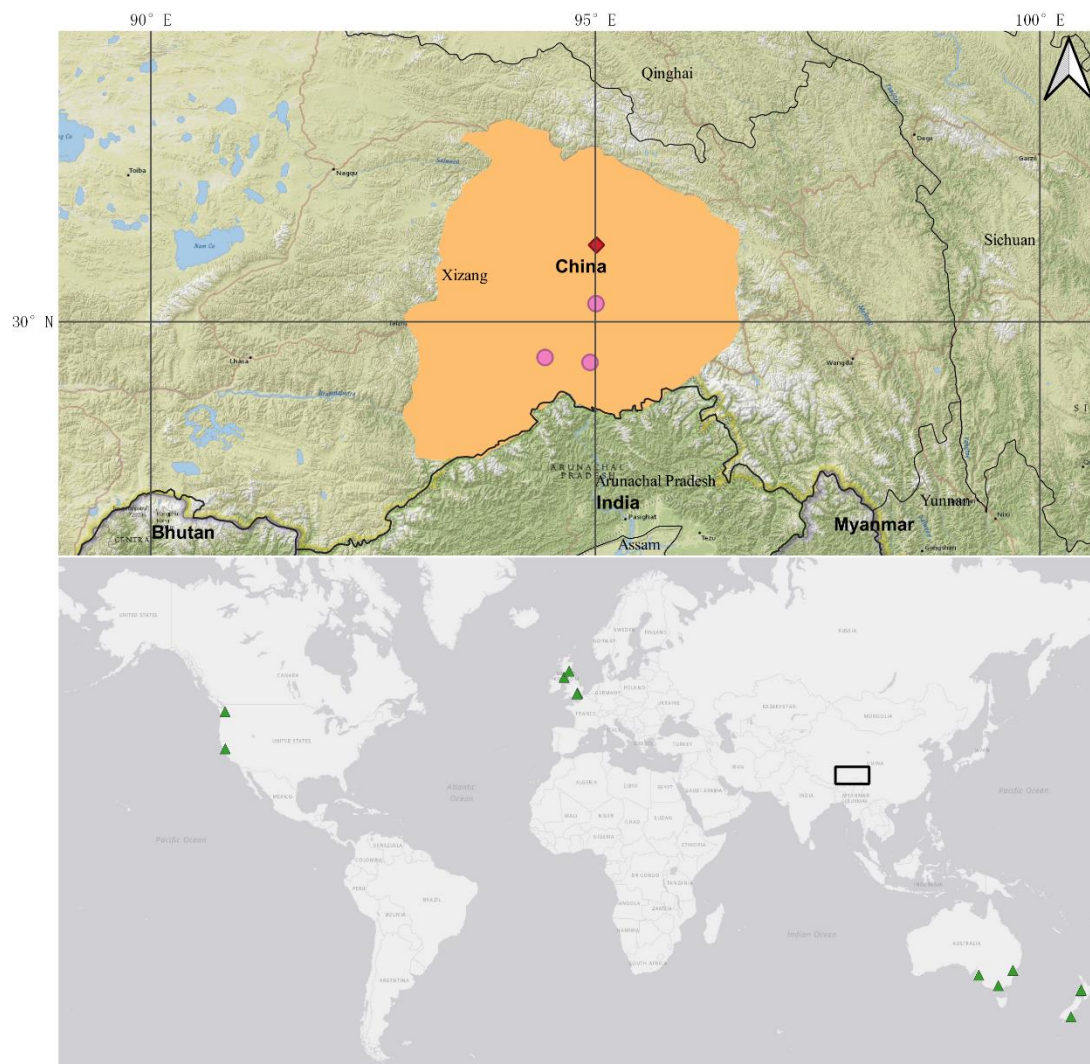
Distribution: China (SE Xizang)

Altitude: 1,830–2,440 m

No. of *ex situ* sites/countries: 12/4

No. of (mapped) wild sources: (4) 4

No. of wild accessions: 10



## 51. *Rhododendron sinonuttallii* Balf.f. & Forrest

IUCN Red List status: **VU** (Gibbs et al., 2011)

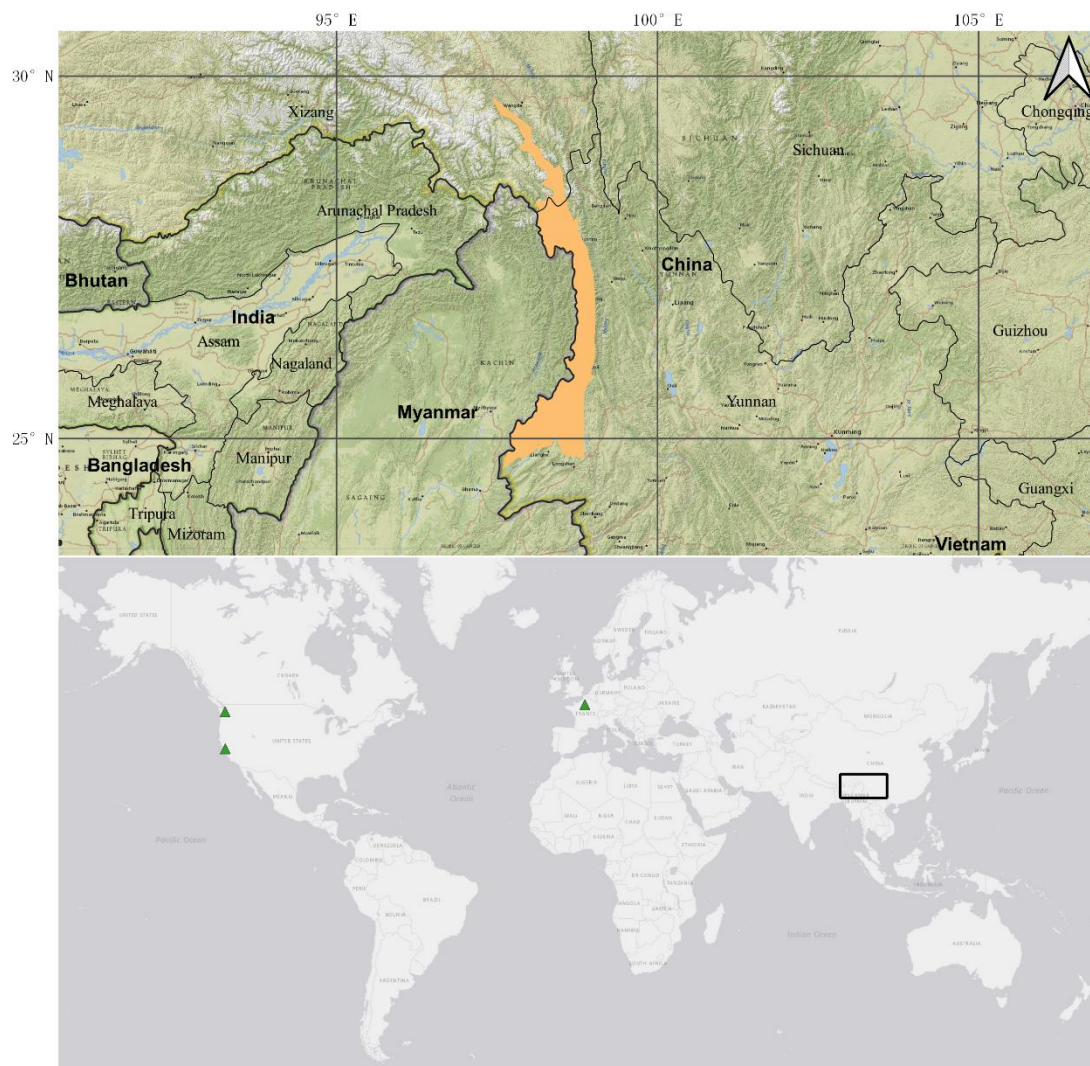
Distribution: China (SE Xizang, NW Yunnan), N Myanmar? \*

Altitude: 1,200–2,800 m

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: 0

No. of wild accessions: 0



\* Myanmar was mentioned in the Red List (Gibbs et al., 2011) but not in Flora of China (Fang et al., 2005).

## 52. *Rhododendron starlingii* Rushforth & Nguyen Thi Thanh Huong

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IUCN Red List status: NE (Rushforth et al., 2022)

Distribution: Vietnam (Upper parts of Fan Si Pan)

Altitude: ca. 2,800–3,000 m

No. of *ex situ* sites/countries: 2/1 \*

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 2



\* In Keith Rushforth's and Barry Starling's private gardens which are in UK and not members of BGCI. The two wild collections were previously under *R. crenulatum*: AC#5685 and KR#7369 (Rushforth et al., 2022).

### 53. *Rhododendron surasianum* Balf.f. & Craib

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IUCN Red List status: **LC** (Gibbs et al., 2011)

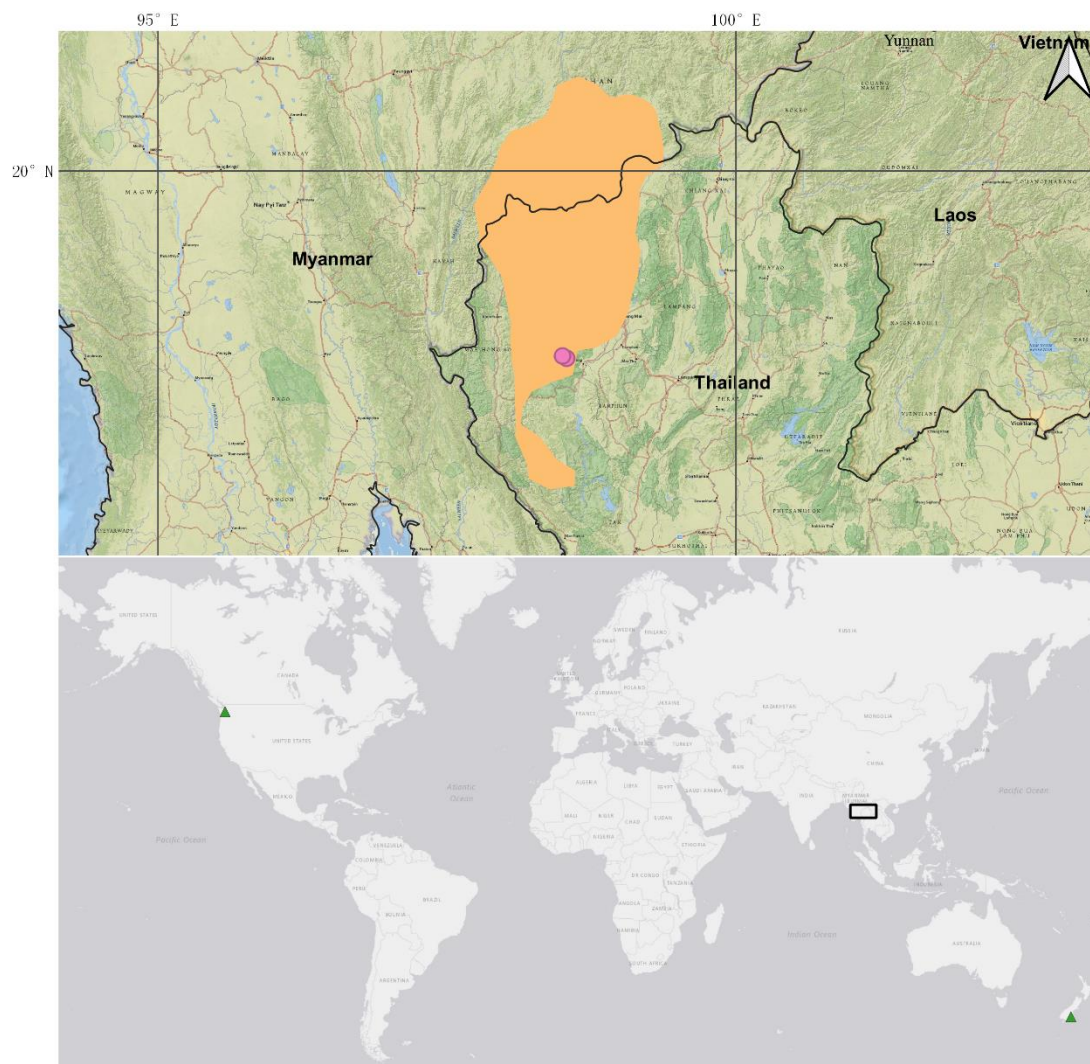
Distribution: N Thailand, SE Myanmar

Altitude: 1,400–1,737 m

No. of *ex situ* sites/countries: 2/2

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 3



## 54. *Rhododendron taggianum* Hutch.

IUCN Red List status: globally VU (Gibbs et al., 2011), NT in China (MEP-CAS, 2013)

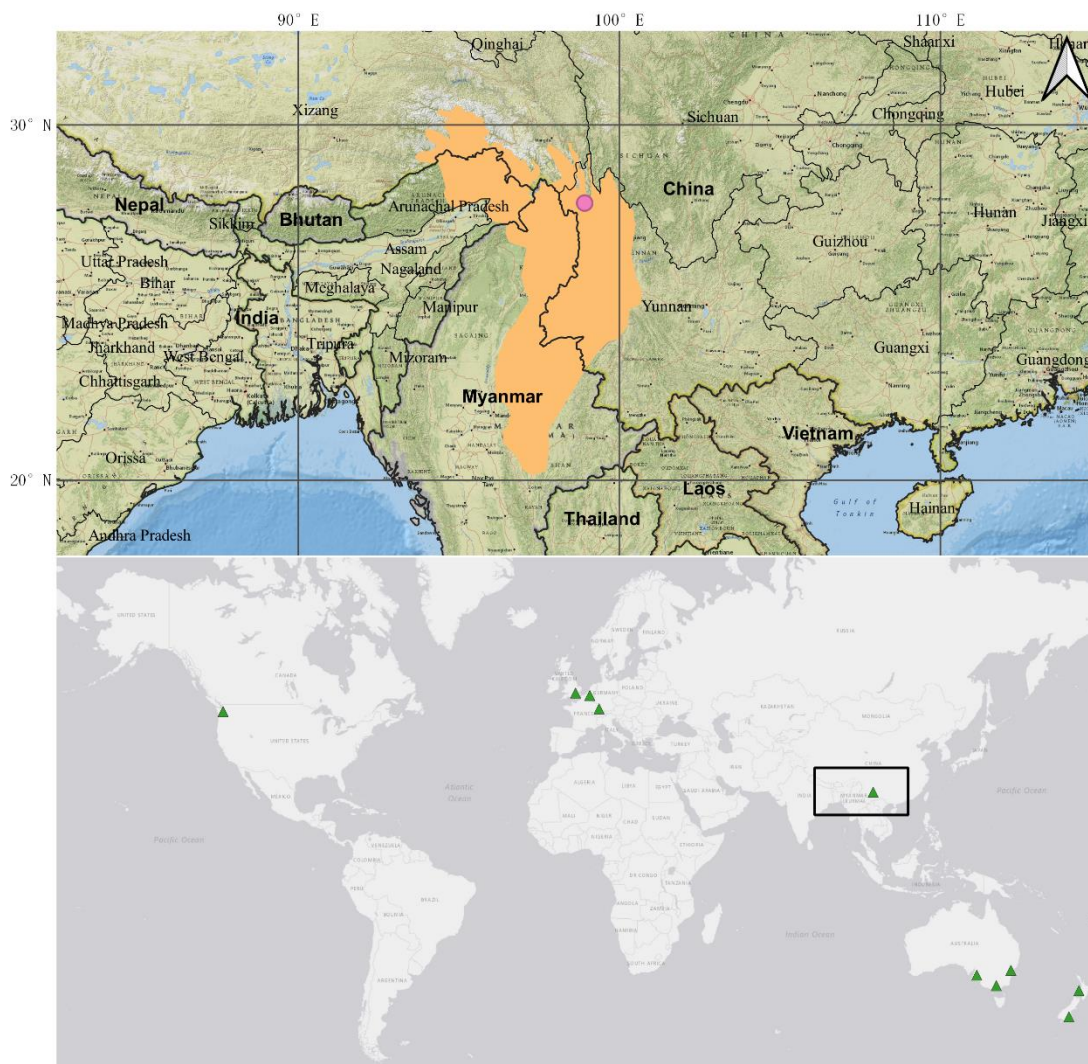
Distribution: China (SE Xizang, Yunnan), NE India (Arunachal Pradesh), NE Myanmar

Altitude: 1,800–2,300 m

No. of *ex situ* sites/countries: 10/7

No. of (mapped) wild sources: (1) 3

No. of wild accessions: 9



## 55. *Rhododendron taronense* Hutch.

IUCN Red List status: **VU** (Gibbs et al., 2011, Qin et al., 2017)

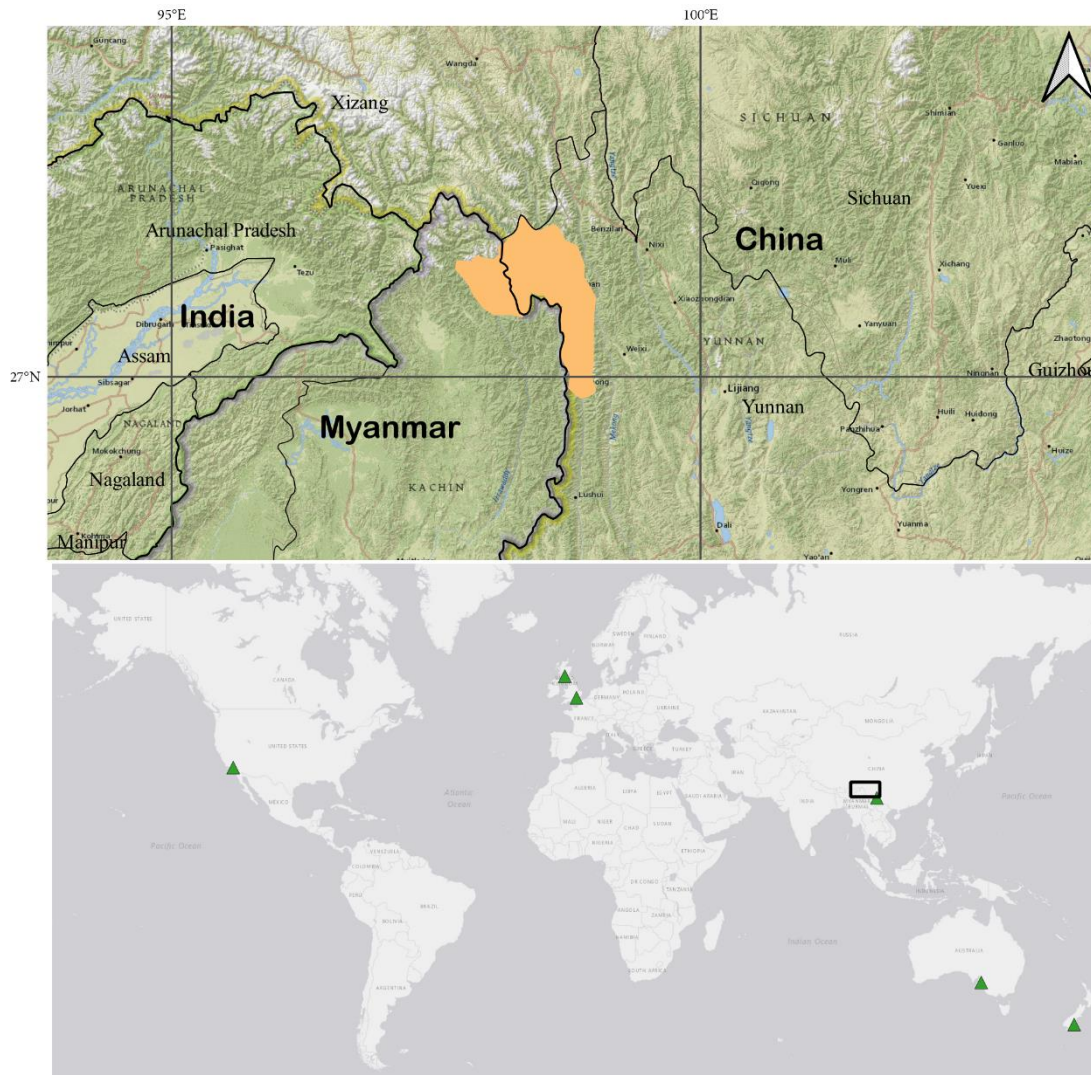
Distribution: China (NW Yunnan), N Myanmar

Altitude: 1,250–2,300 m (Feng, 1988); 1,200–1,600 m (Fang et al., 2005)

No. of *ex situ* sites/countries: 6/5

No. of (mapped) wild sources: (0) 1

No. of wild accessions: 2



## 56. *Rhododendron valentinianum* (var. *valentinianum*) Forrest ex Hutch.

IUCN Red List status: NT (Gibbs et al., 2011, MEP-CAS, 2013)

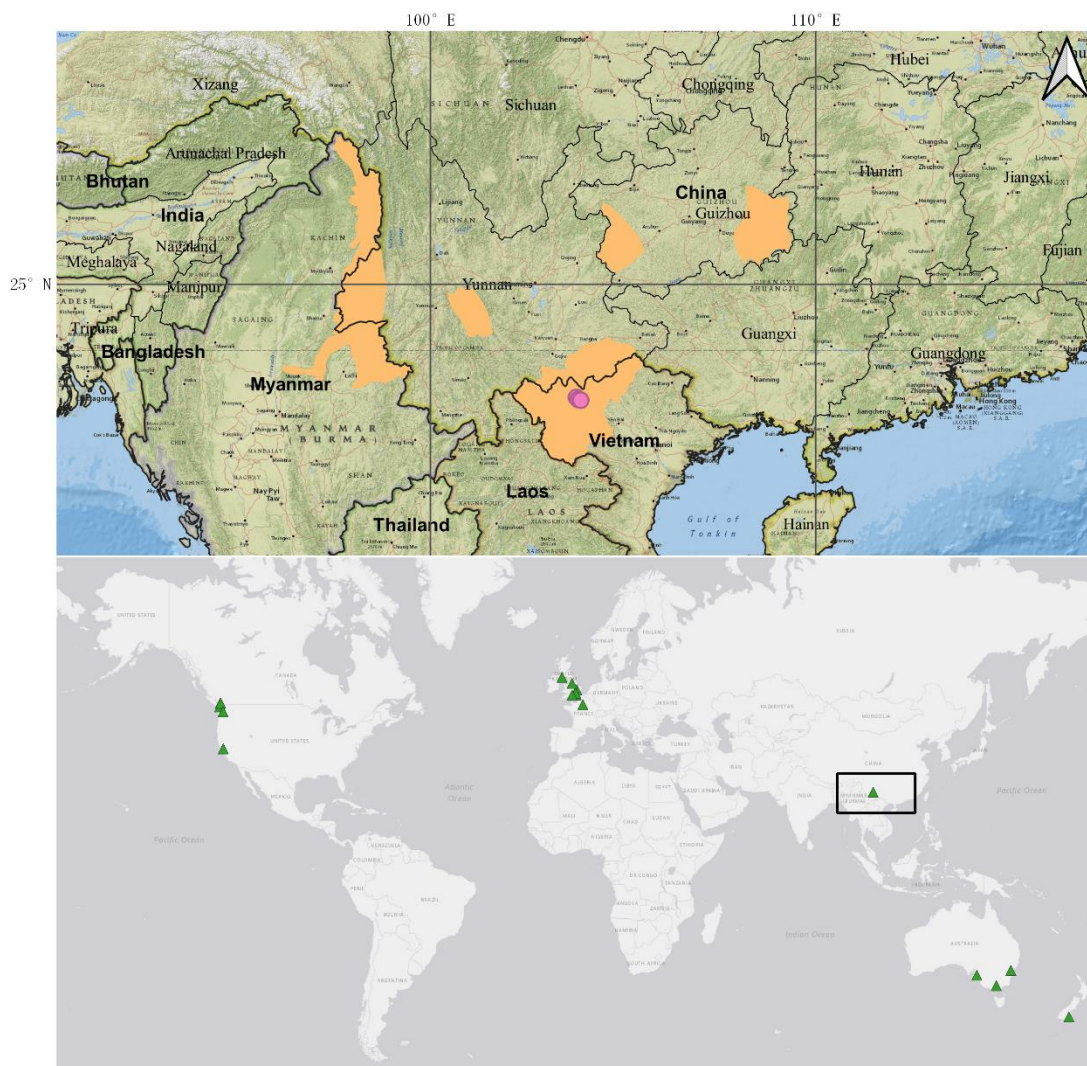
Distribution: China (Guizhou, Yunnan), NE Myanmar, N Vietnam \*

Altitude: ca. 2,400 m

No. of *ex situ* sites/countries: 16/7

No. of (mapped) wild sources: (3) 6

No. of wild accessions: 19



\* Scattered distribution in Guizhou (Guiding, Anlong), Yunnan (Tengchong, Jingdong, Jinping) and wide in NE Myanmar and N Vietnam (Flora of China,

<http://www.iplant.cn/info/%E6%AF%9B%E6%9F%84%E6%9D%9C%E9%B9%83?t=z>)



## 57. *Rhododendron valentinianum* var. *oblongilobatum* R.C.Fang

IUCN Red List status: NT (MEP–CAS, 2013)

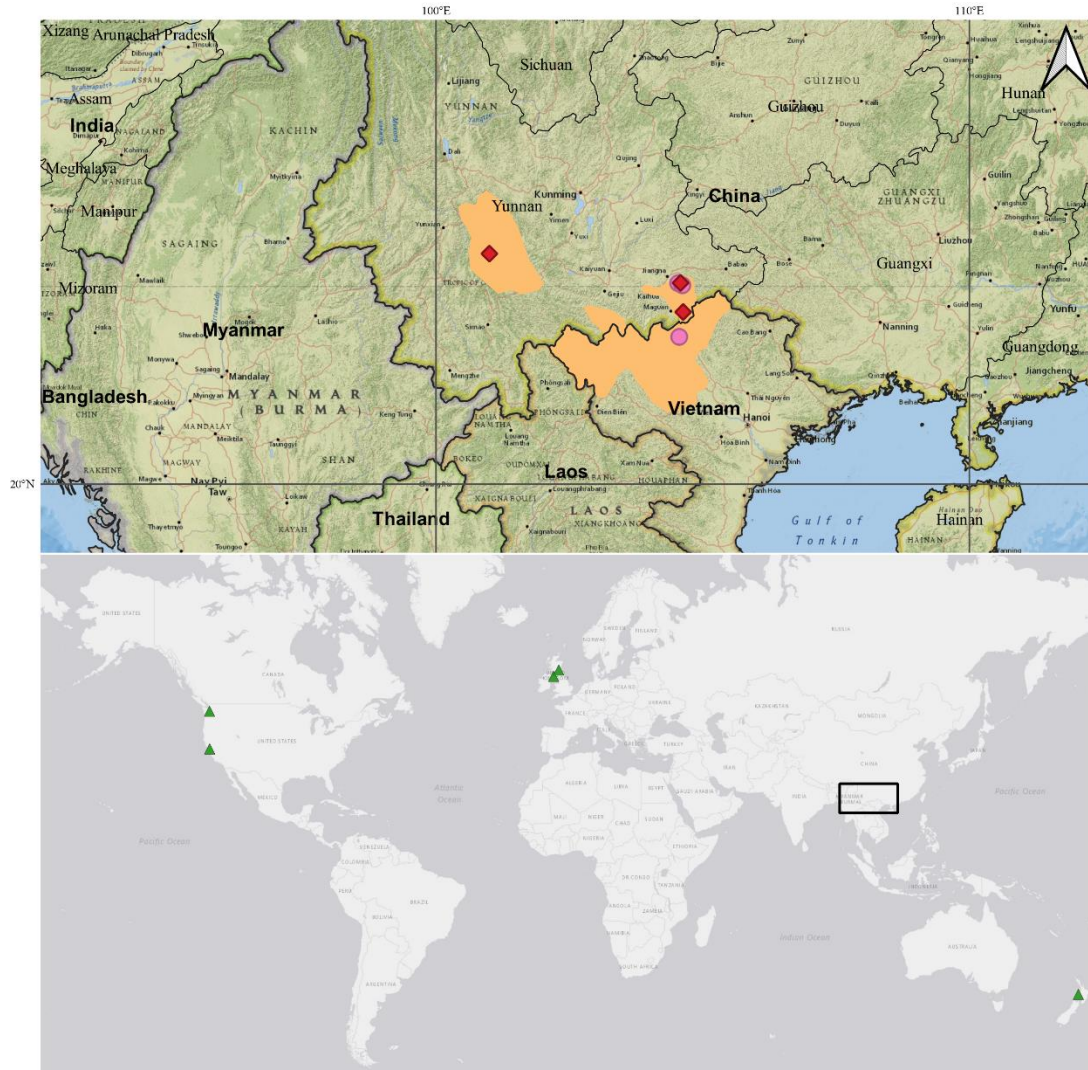
Distribution: China (Yunnan), N Vietnam

Altitude: 1,800–3,100 m

No. of *ex situ* sites/countries: 5/3

No. of (mapped) wild sources: (6) 7

No. of wild accessions: 23



Distribution and wild collections of *R. valentinioides* may be lumped with *R. valentinianum* var. *oblongilobatum* due to unresolved taxonomy (Hootman, 2021).

## 58. *Rhododendron valentinioides* (ined.) Chamb., Cox and Hutchison

IUCN Red List status: **DD** (Gibbs et al., 2011, MEP–CAS, 2013)

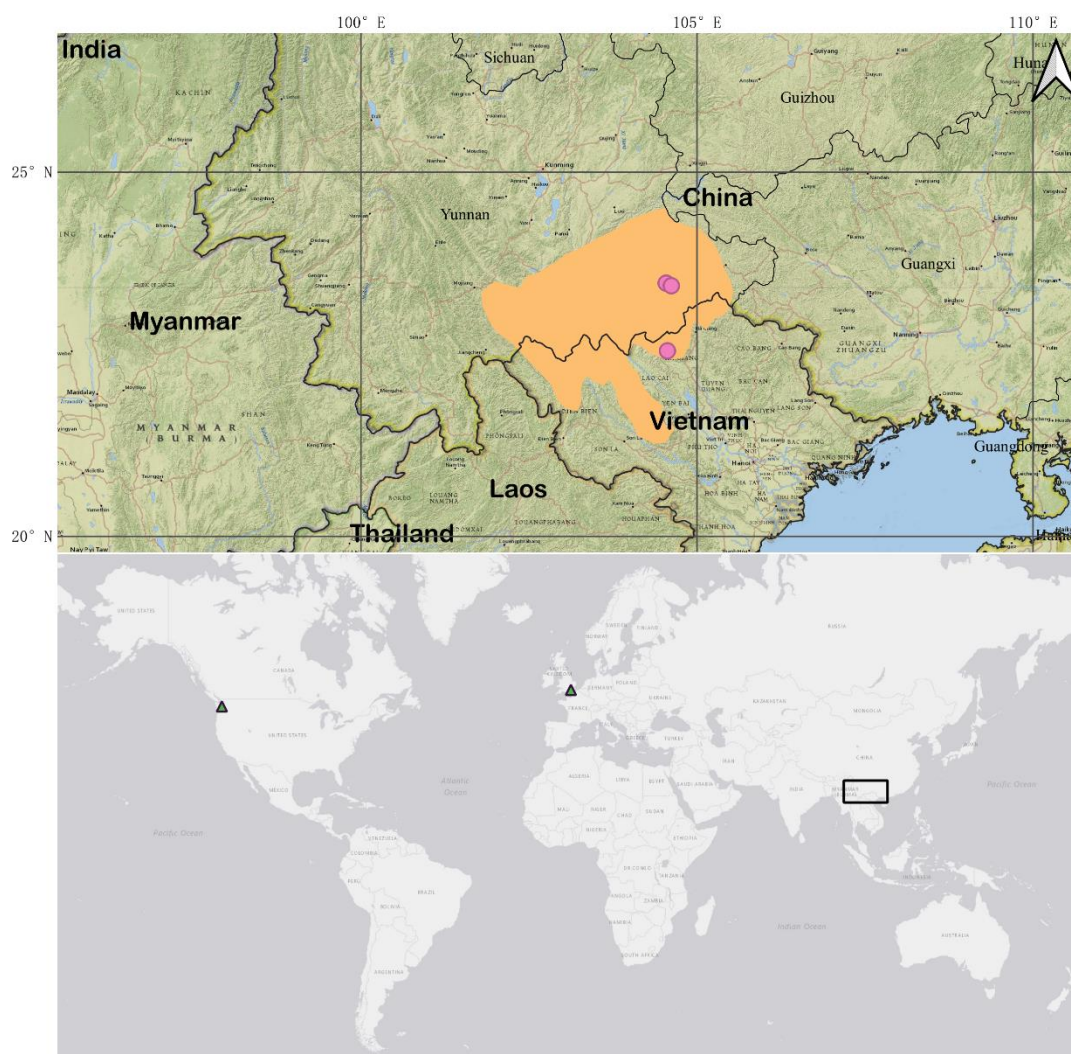
Distribution: China (Yunnan), N Vietnam

Altitude: ca. 2,800 m (referring to wild accessions)

No. of *ex situ* sites/countries: 2/2

No. of (mapped) wild sources: (3) 3

No. of wild accessions: 6



*R. valentinioides* was listed separately in the Red List (Gibbs et al., 2011), with narrower distribution in the border area between China (Yunnan) and Vietnam. It was identified phylogenetically close to *R. valetinianum* var. *oblongilobatum* and both distinct from *R. valentinianum* (Donald, 2012). Cox (2013) and Steve Hootman (<https://rhodygarden.org/new-r-valentinioides-646/>) mentioned *R. valentinioides* was a new species yet to be accepted. However, the Cox Glendoick website lumps *R.*

*valentinioides* C.&H.7186 with *R. valentinianum* var. *oblongilobatum*  
(<https://www.glendoick.com/Maddenia-Rhododendrons>).

## 59. *Rhododendron vanderbiltianum* Merr.

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IUCN Red List status: **LC** (Gibbs et al., 2011)

Distribution: Indonesia, a small group of mountains in the Losir area of Aceh Province: Mt. Losir; Mt. Goh Lembuh; Mt. Kemiri and Pang–mog (Argent et al., 2008)

Not in cultivation.



*R. vanderbiltianum* is an accepted species

(<http://www.plantsoftheworldonline.org/taxon/urn:lsid:ipni.org:names:333537-1>) but its taxonomic position remains unknown (<http://www.worldfloraonline.org/taxon/wfo-0000405704>). Argent et al. (2008) confirmed *R. vanderbiltianum* was not a vireya species. He also noted it was morphologically similar to *R. crenulatum* (subsection *Maddenia*) and difficult to cultivate as the latter. Donald (2012) included *R. vanderbiltianum* as a yellow-flower species and verified it phylogenetically close to species in ss. *Maddenia*. However, as yet there is no other evidence to confirm its placement. Previously the global *ex situ* conservation update of *Rhododendron* (MacKay et al., 2018) included *R. vanderbiltianum* in ss. *Maddenia* based on existing evidence. Hereby, we include it as a species of ss. *Maddenia* in our study.

## 60. *Rhododendron veitchianum* Hook. f.

Note: data below includes the synonym *R. cubittii* Hutch.

IUCN Red List status: **LC** (Gibbs et al., 2011), Rare in India (Mizoram)

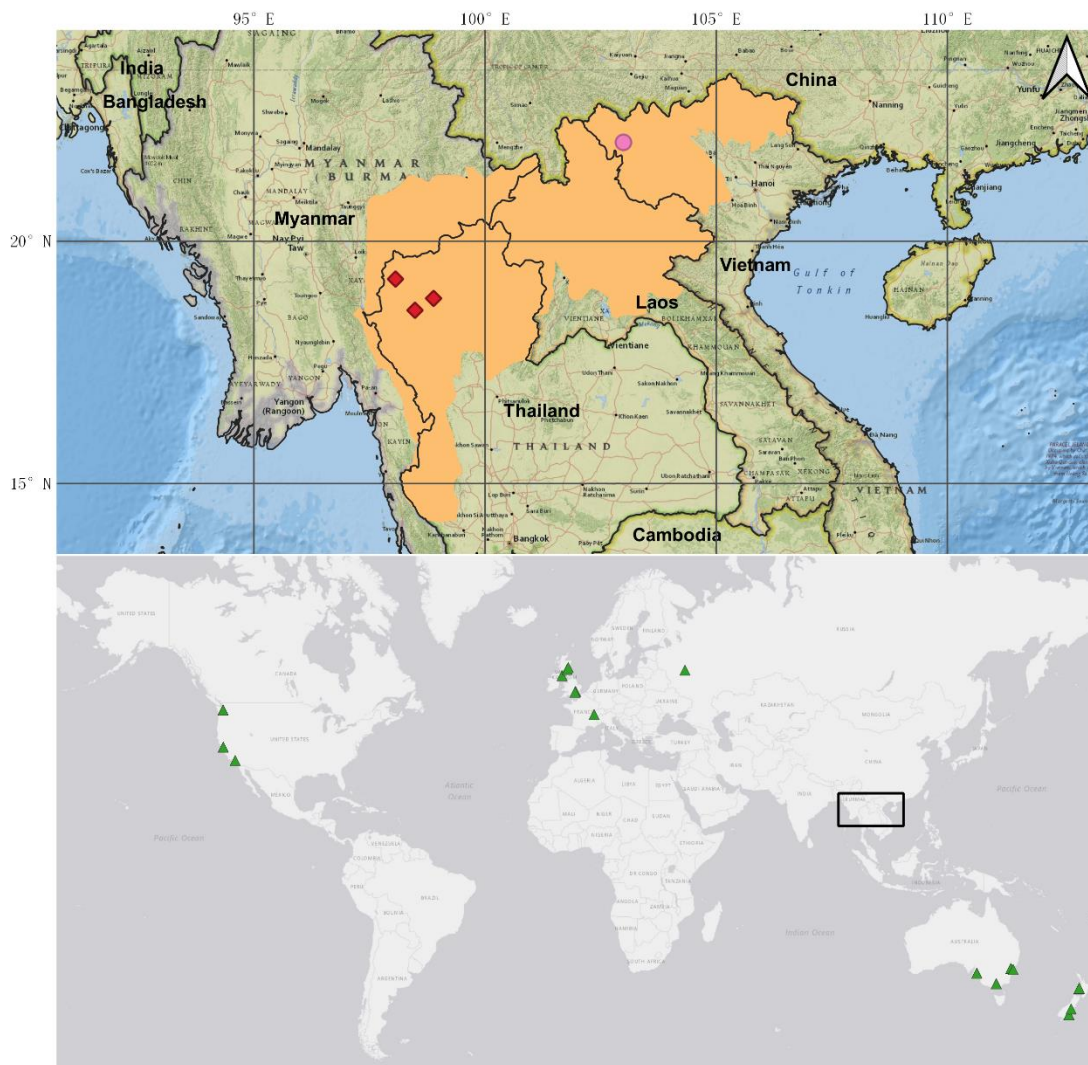
Distribution \*: Myanmar, Laos, Thailand, Vietnam

Altitude: 1,220–2,288 m

No. of *ex situ* sites/countries: 18/6

No. of (mapped) wild sources: (4) 7

No. of wild accessions: 9



\* Distribution in N Myanmar (Cullen, 1980, pp 55–56) and India (Mizoram) (<https://archive.nationalredlist.org/species-information/?speciesID=229666>) is possible.

## 61. *Rhododendron walongense* Kingdon–Ward

IUCN Red List status: globally **VU** (Gibbs et al., 2011), LC in China (MEP–CAS, 2013)

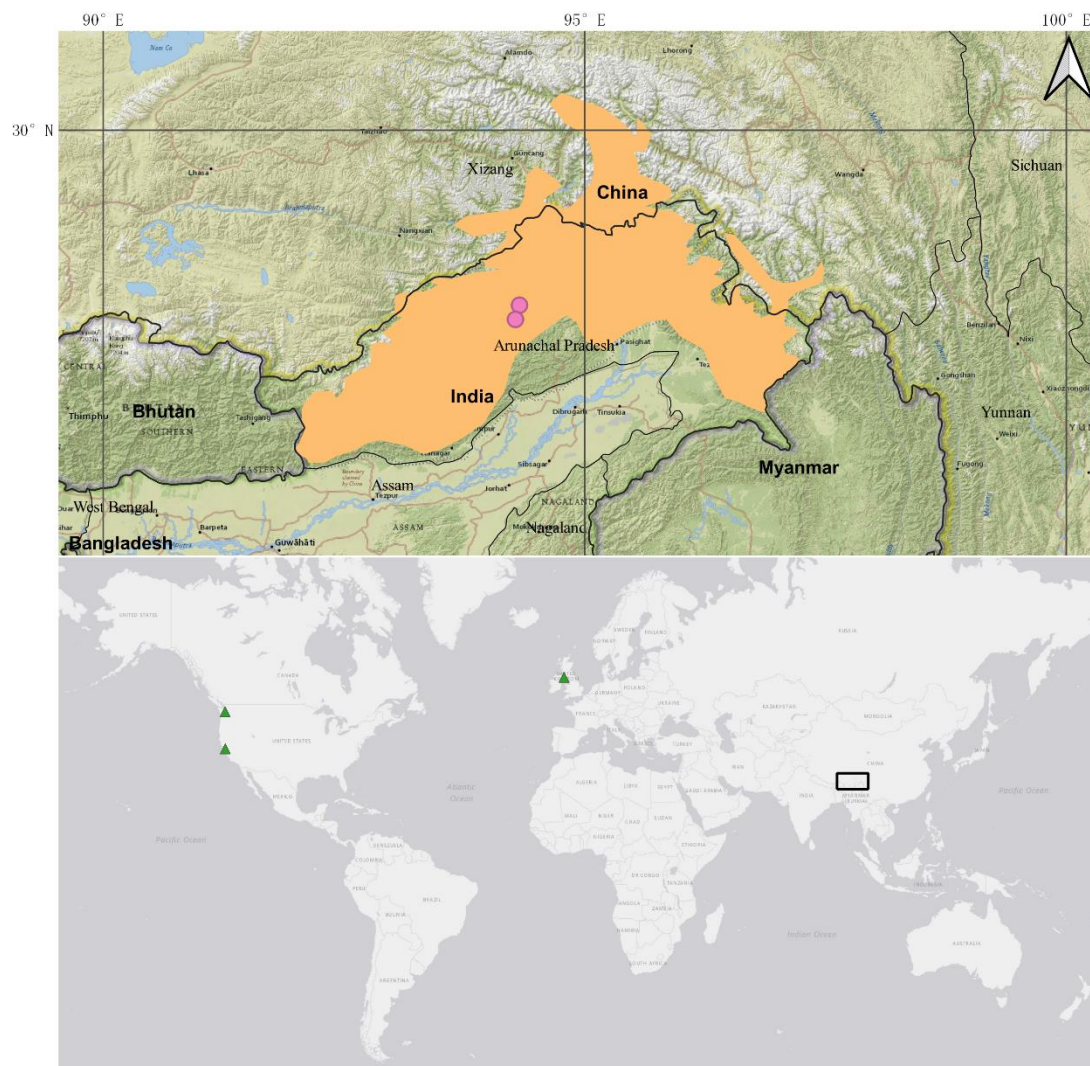
Distribution: China (S Xizang), India (Arunachal Pradesh)

Altitude: 1,500–2,200 m

No. of *ex situ* sites/countries: 3/2

No. of (mapped) wild sources: (2) 2

No. of wild accessions: 5



## 62. *Rhododendron wumingense* W.P.Fang

IUCN Red List status: **VU** (Gibbs et al., 2011, Qin et al., 2017)

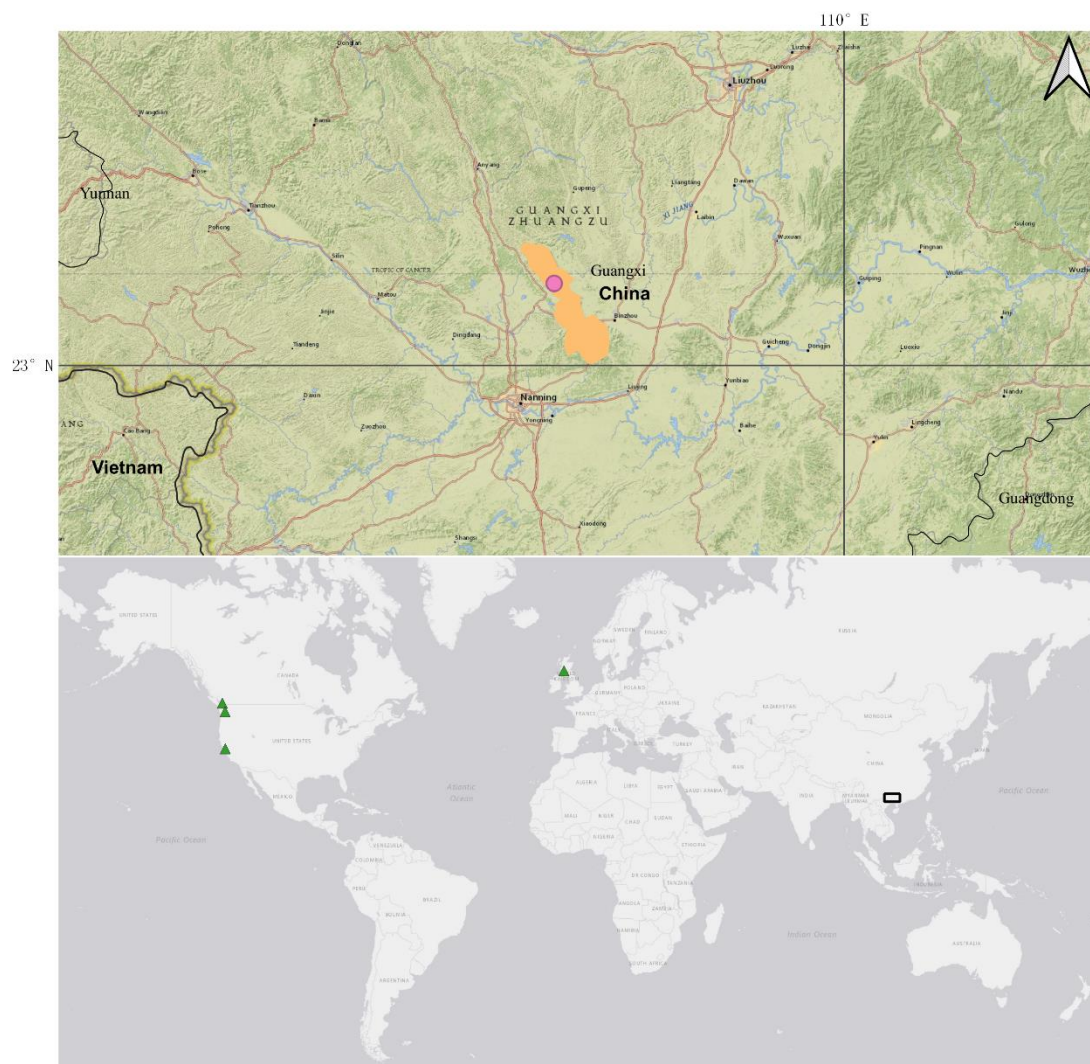
Distribution: China (Wuming in central Guangxi)

Altitude: ca. 1,000 m

No. of *ex situ* sites/countries: 4/3

No. of (mapped) wild sources: (1) 3

No. of wild accessions: 21



### 63. *Rhododendron yaogangxianense* Q.X.Liu

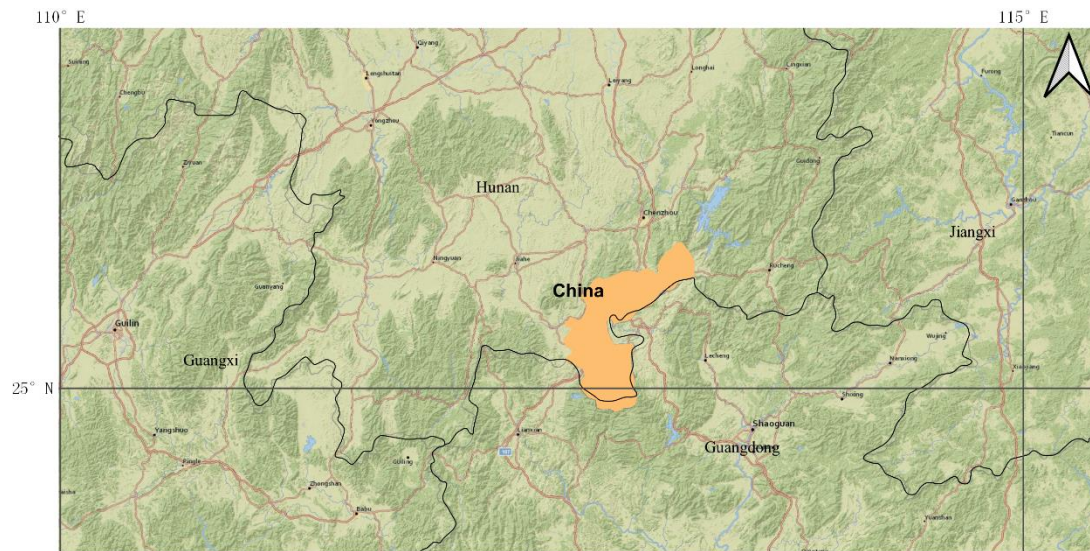
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IUCN Red List status: **DD** (Gibbs et al., 2011, MEP-CAS, 2013)

Distribution: China (Yizhang in Hunan)

Altitude: ca. 1,100 m

Not in cultivation.





## 64. *Rhododendron yizhangense* Q.X.Liu

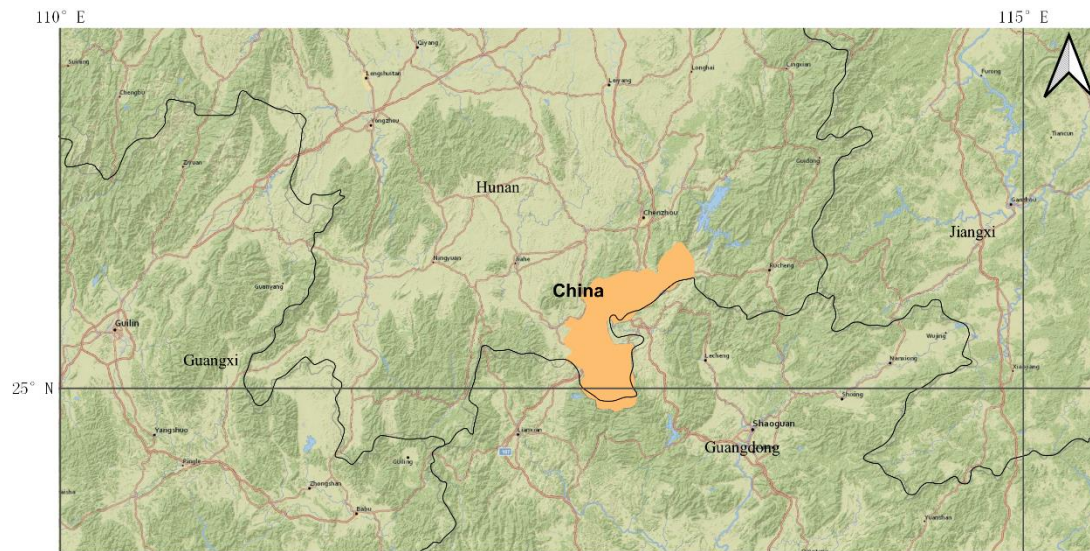
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IUCN Red List status: **DD** (Gibbs et al., 2011, MEP-CAS, 2013)

Distribution: China (Yizhang in Hunan)

Altitude: ca. 1,600 m

Not in cultivation.



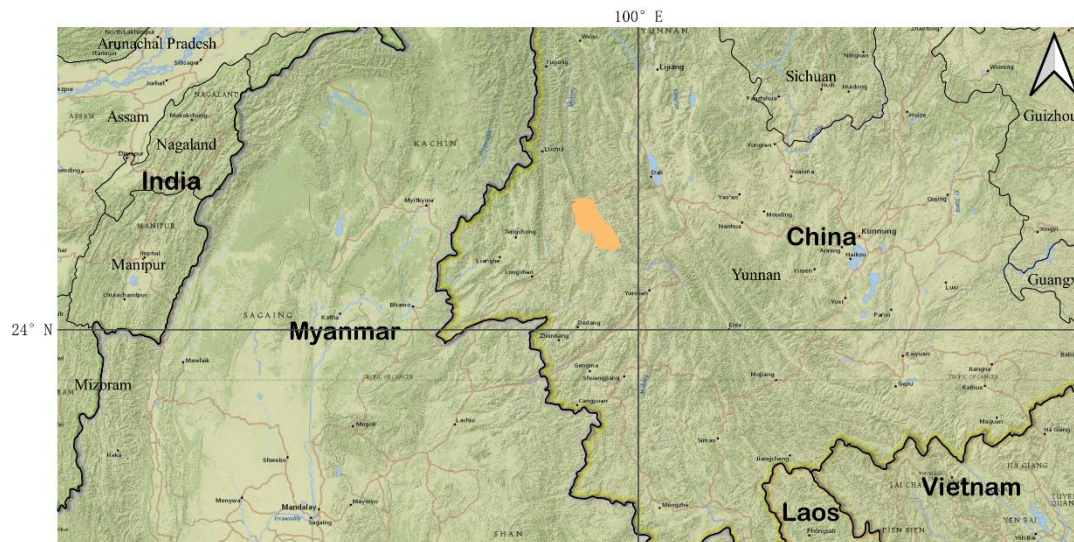
## 65. *Rhododendron yungchangense* Cullen

IUCN Red List status: globally DD (Gibbs et al., 2011), LC in China (MEP-CAS, 2013)

Distribution: China (W Yunnan) \*

Altitude: 2,100–2,500 m

Not in cultivation.



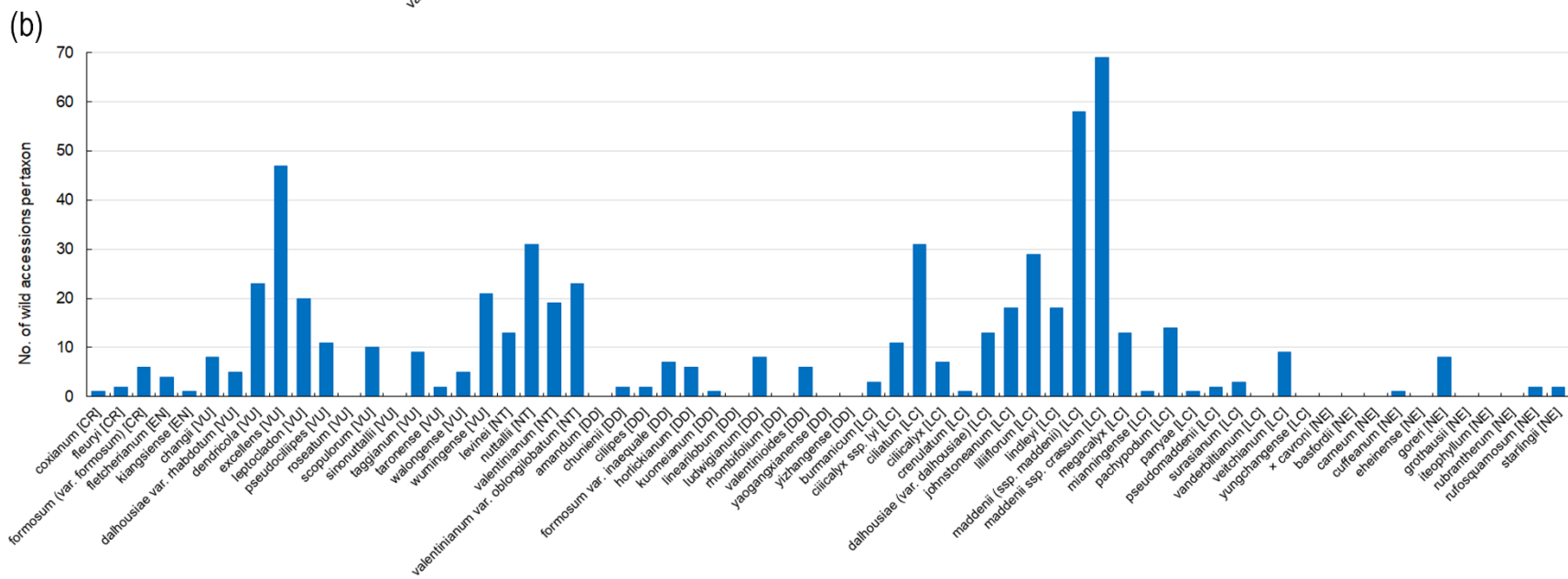
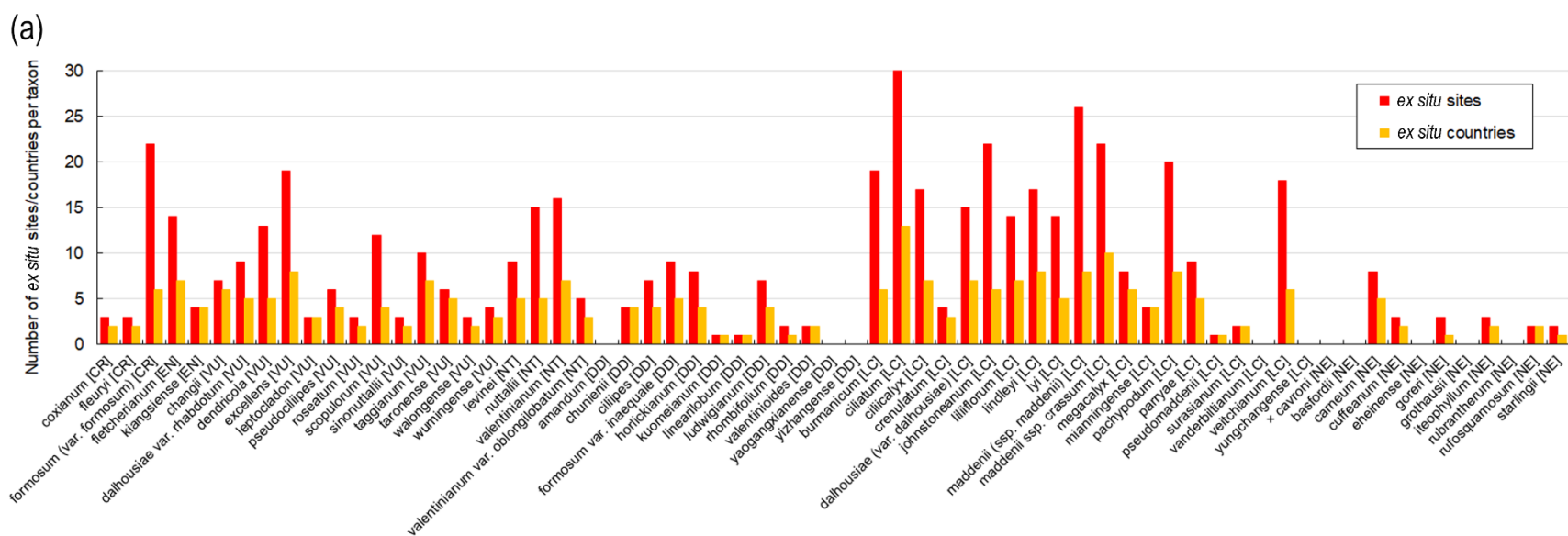
\* Lacking distribution data. This map shows the location where type specimen was collected (Davidian, 1982).

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SUPPLEMENTARY FIGURE 1 *Ex situ* living collections of *Rhododendron* subsection *Maddenian* by taxon. (a) Number of global sites and countries holding *ex situ* collections. (b) Number of accessions in wild collections. Taxa are in alphabetical order under each IUCN Red List category.



SUPPLEMENTARY FIGURE 2 Summary of mapping *ex situ* wild collections of *Rhododendron* subsection *Maddenia*, by taxon. Of the total 277 wild collections, 179 were mapped with either pink dots or red diamonds as shown in Fig. 1b. The other 98 were not mapped due to lack of provenance information.

