Biogeographic Overview of Ulmaceae: Diversity, Distribution, Ecological Preferences, and Conservation Status

Fragnière et al.

Supplementary file S2

Distribution maps of all Ulmaceae species

All species presented in alphabetical order

Ampelocera albertiae

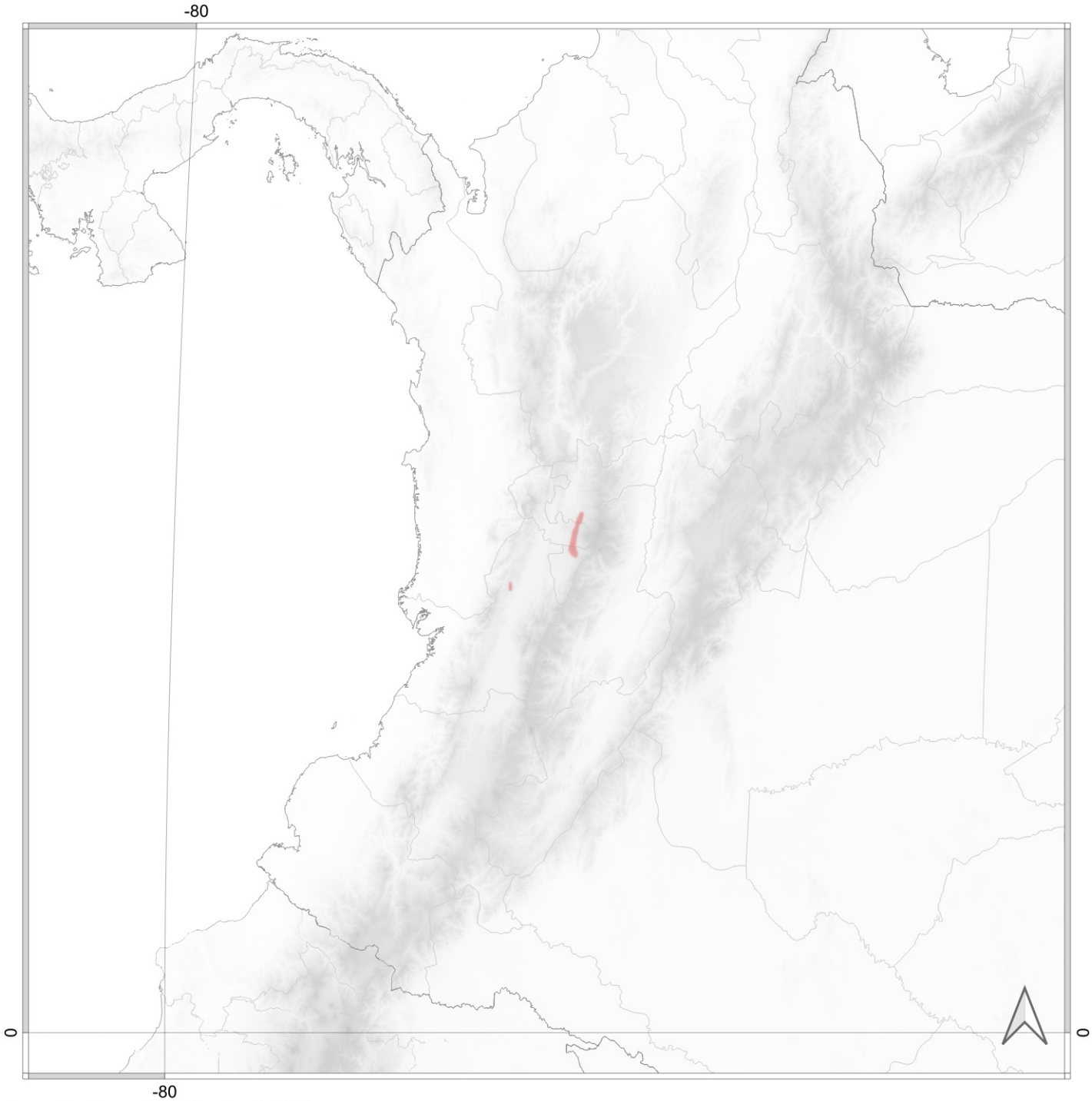
Todzia

Ann. Missouri Bot. Gard. 76: 1089, fig. 1 (1989)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : wet tropical mountains
*
climate - Köppen classification : Cfb, Af
*
indicative altitudinal range : 1750 - 1900 m
*
min. latitude : 4.3, max. latitude : 5,
min. longitude : -76.3, max. longitude : -75.5





Source of the data : see details in Fragnière et al., 2021

Ampelocera cubensis

Griseb.

Cat. Pl. Cub. [Grisebach] 57 (1866)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : costal thickets, limestone cliffs, rocky woods
*
climate - Köppen classification : Aw
*
indicative altitudinal range : 0 - 300 m
*
min. latitude : 17.5, max. latitude : 23.3,
min. longitude : -84.9, max. longitude : -70.9





Source of the data : see details in Fragnière et al., 2021

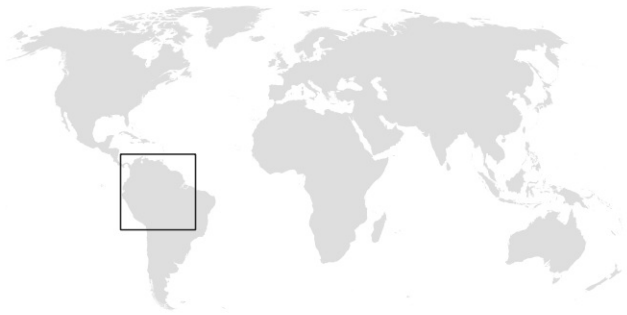
Ampelocera edentula

Kuhlm.

Anais Reunião Sul-Amer. Bot. 3: 75, tab. 1 (1940)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : primary tropical moist forests, nonflooded and flooded riverine forests
*
climate - Köppen classification : Af, Am, (Aw)
*
indicative altitudinal range : 0 - 750 m
*
min. latitude : -16.5, max. latitude : 9.8,
min. longitude : -80.1, max. longitude : -46.4





Source of the data : see details in Fragnière et al., 2021

Ampelocera glabra

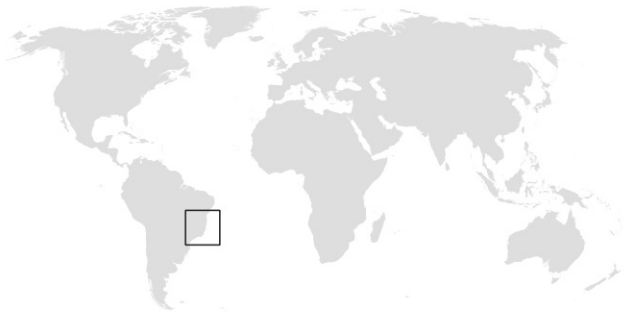
ULMACEAE

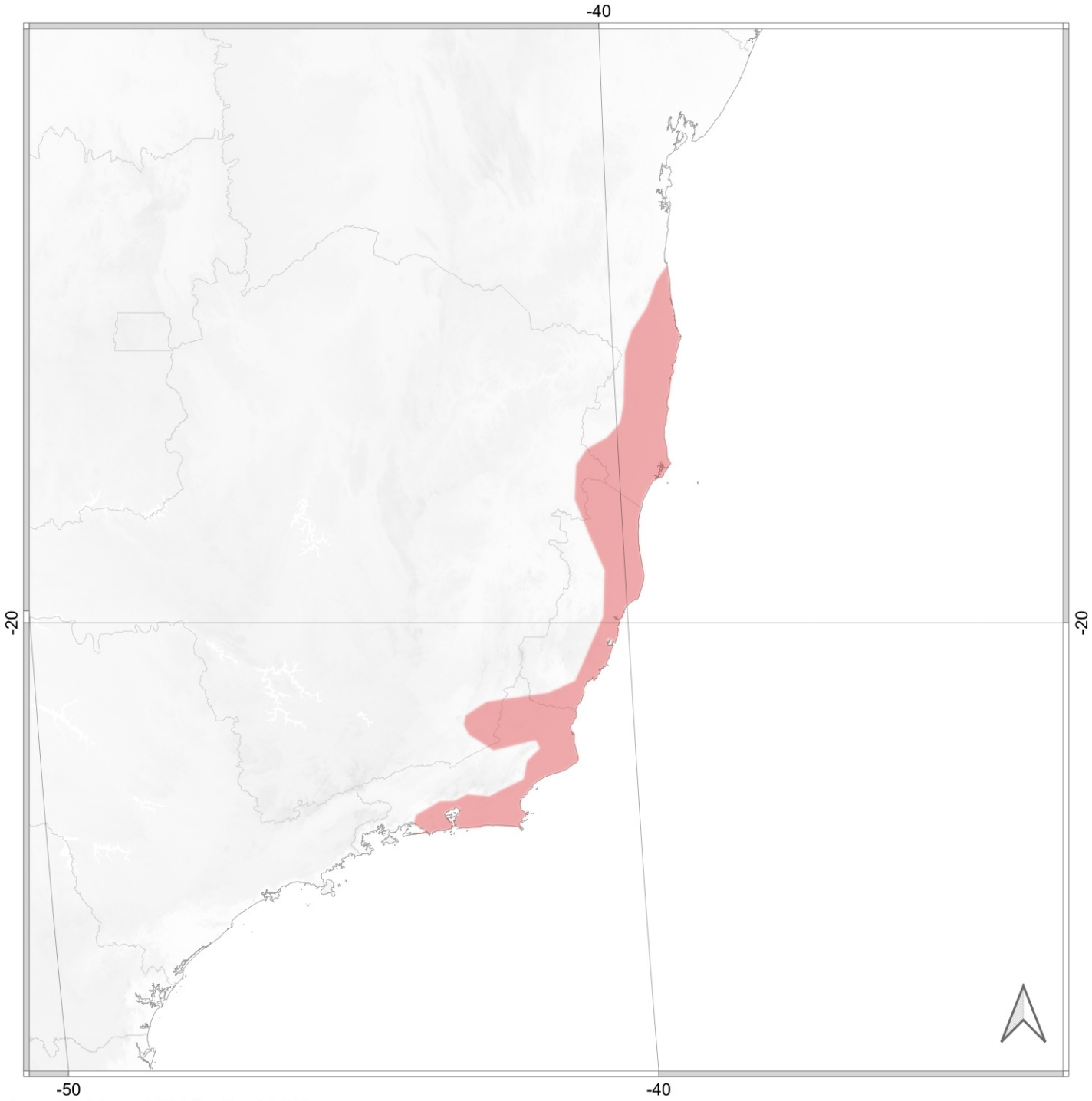
Kuhlm.

Arch. Jard. Bot. Rio de Janeiro 4: 351, pl. 28 (1925)

IUCN Red list status : ne
*
habitat-ecology : dense primary forests
*
climate - Köppen classification : Af, Aw
*
indicative altitudinal range : 0 - 800 m
*
min. latitude : -23.1, max. latitude : -14.8,
min. longitude : -43.9, max. longitude : -38.9

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ampelocera hottlei

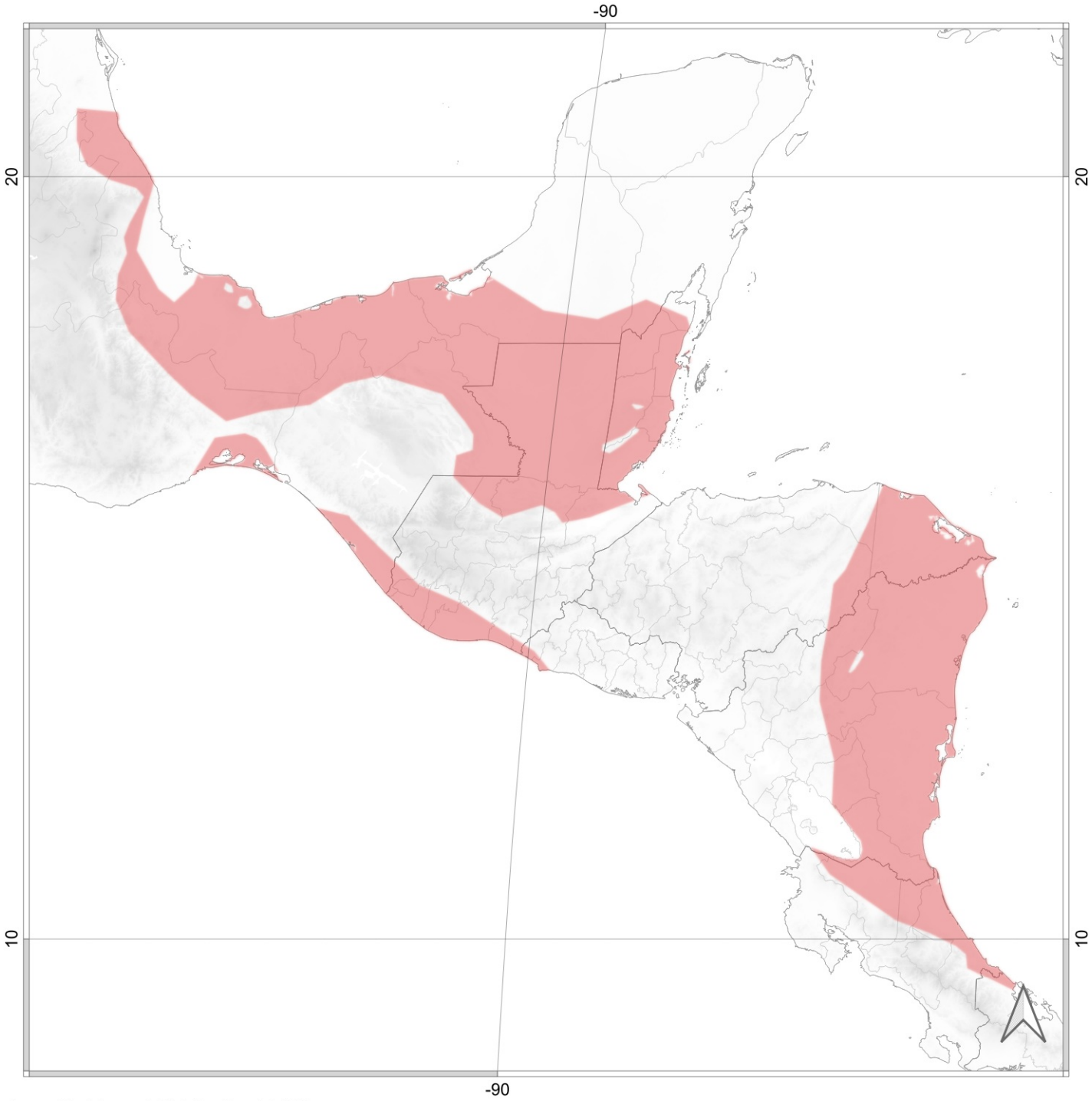
ULMACEAE

Standl.

Trop. Woods 51: 11 (1937)

IUCN Red list status : LC
*
habitat-ecology : well developed humid forests
*
climate - Köppen classification : Af, Am (Aw)
*
indicative altitudinal range : 0 - 800 m
*
min. latitude : 9.3, max. latitude : 20.9,
min. longitude : -97.8, max. longitude : -82.3





Source of the data : see details in Fragnière et al., 2021

Ampelocera longissima

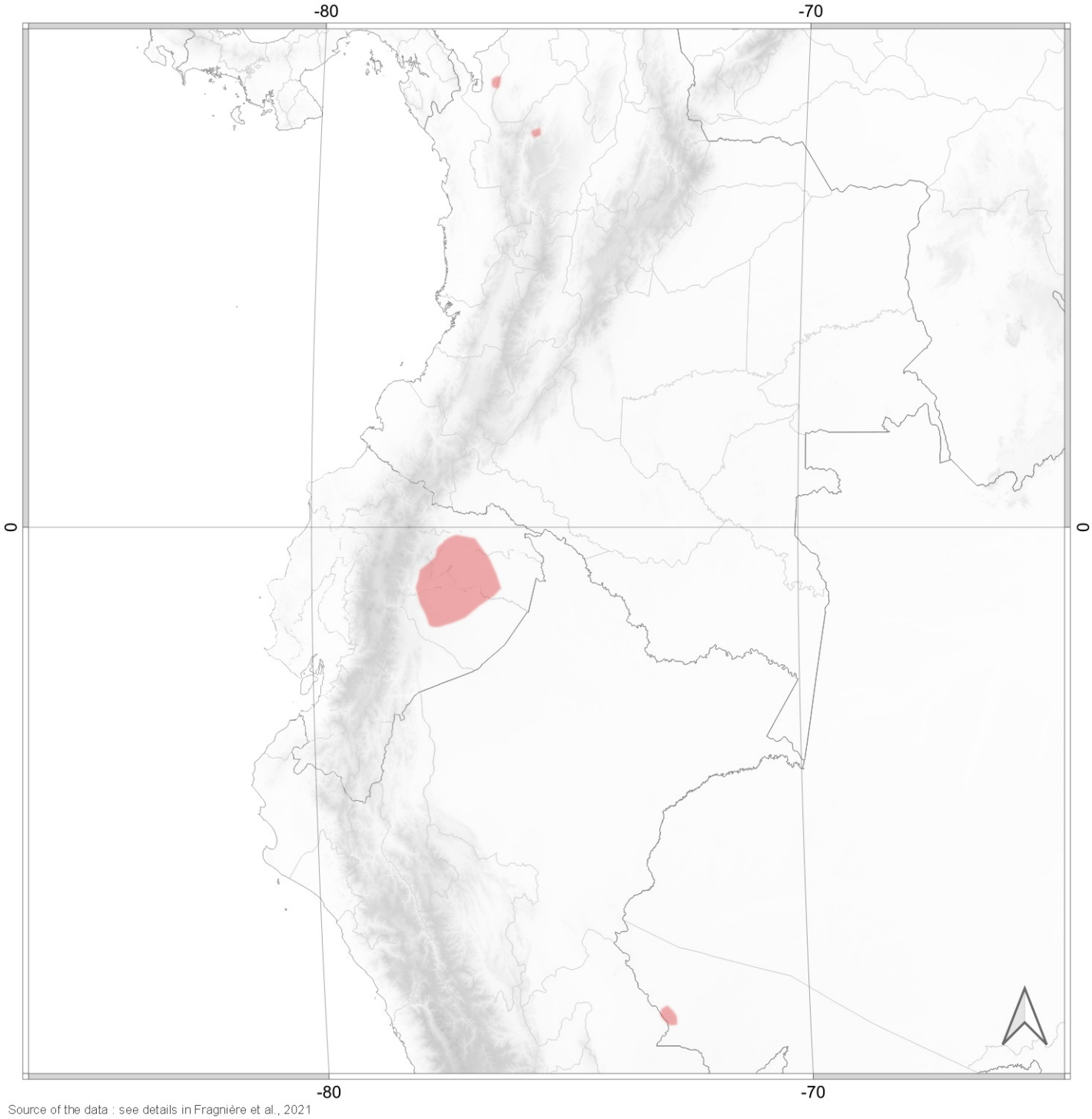
ULMACEAE

Todzia

Ann. Missouri Bot. Gard. 76: 1096 (-1097), fig. 5 (1989)

IUCN Red list status : NT
*
habitat-ecology : primary forests
*
climate - Köppen classification : Af
*
indicative altitudinal range : 250 - 1500 m
*
min. latitude : -9.1, max. latitude : 8.2,
min. longitude : -77.9, max. longitude : -72.8





Source of the data : see details in Fragnière et al., 2021

Ampelocera macphersonii

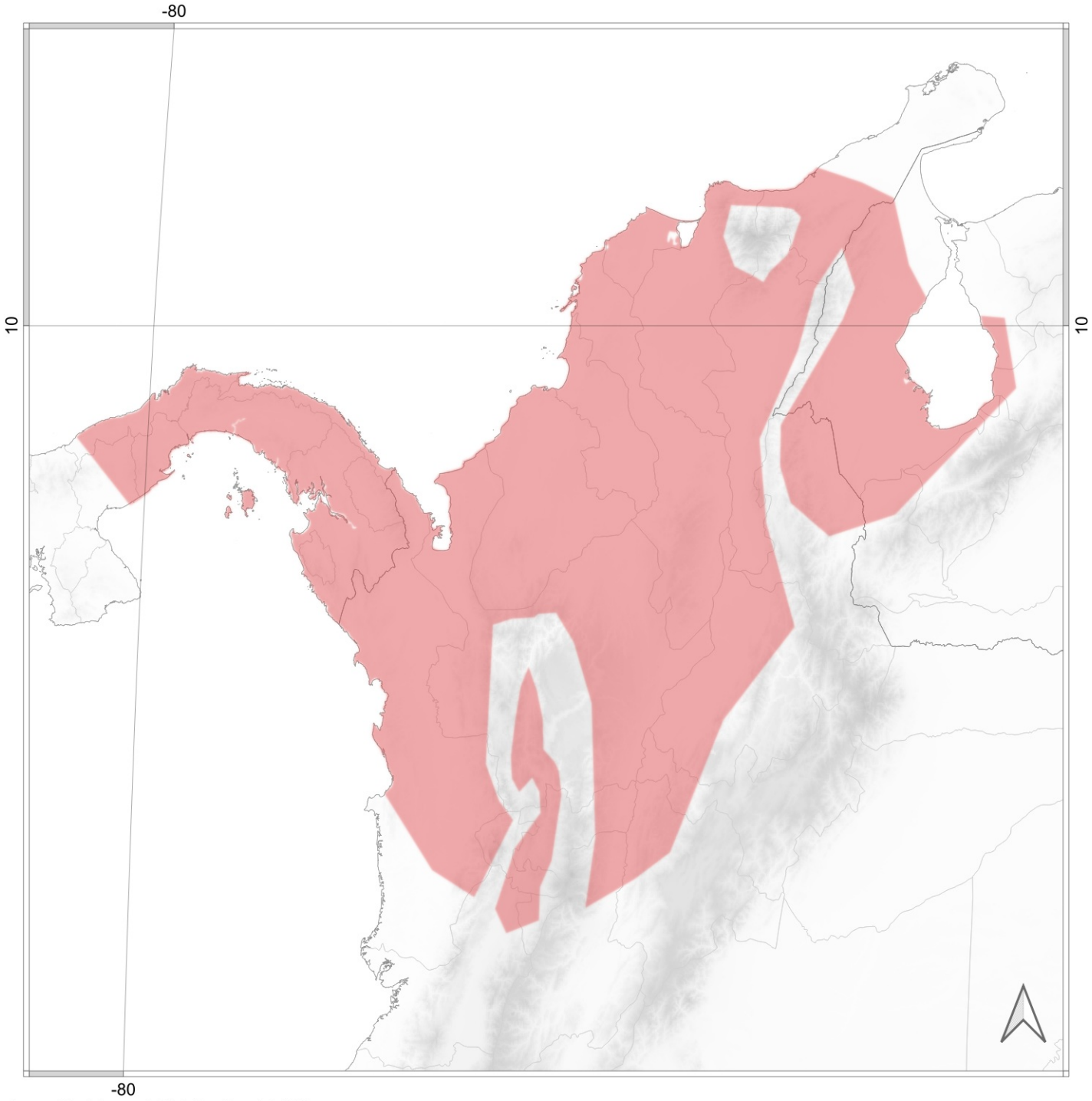
ULMACEAE

Todzia

Ann. Missouri Bot. Gard. 76: 1099, fig. 6 (1989)

IUCN Red list status : LC
*
habitat-ecology : undisturbed deciduous forests and moist forests
*
climate - Köppen classification : Af, Am, Aw
*
indicative altitudinal range : 0 - 1400 m
*
min. latitude : 4.3, max. latitude : 11.5,
min. longitude : -80.8, max. longitude : -70.8





Source of the data : see details in Fragnière et al., 2021

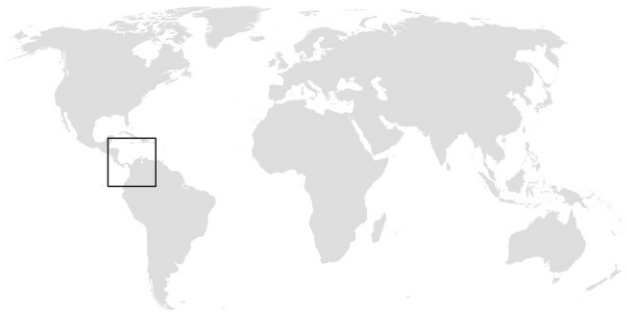
Ampelocera macrocarpa

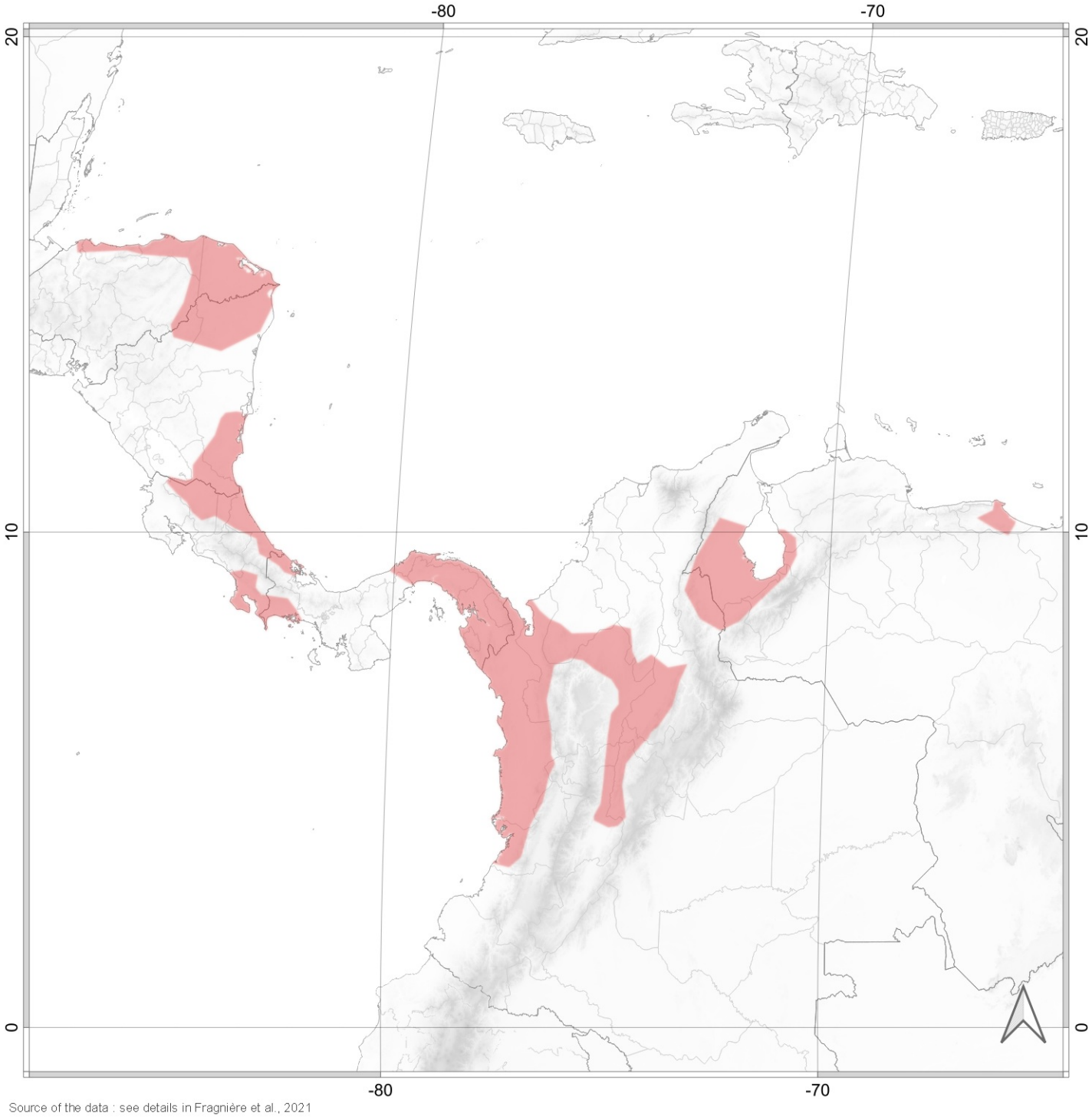
ULMACEAE

Ferero & Gentry

Phytologia 55: 365 (1984)

IUCN Red list status : LC
*
habitat-ecology : evergreen forests and limestones
*
climate - Köppen classification : Af, Am
*
indicative altitudinal range : 0 - 775 m
*
min. latitude : 3.2, max. latitude : 16,
min. longitude : -87.9, max. longitude : -65.8





Source of the data : see details in Fragnière et al., 2021

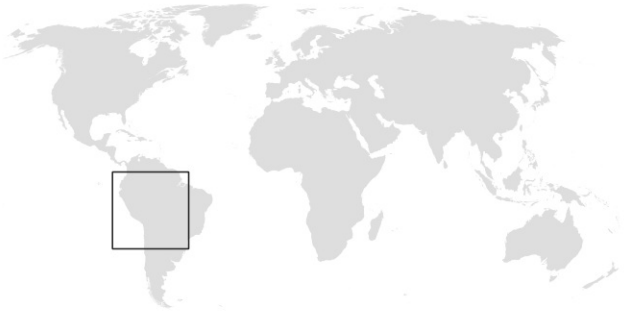
Ampelocera ruizii

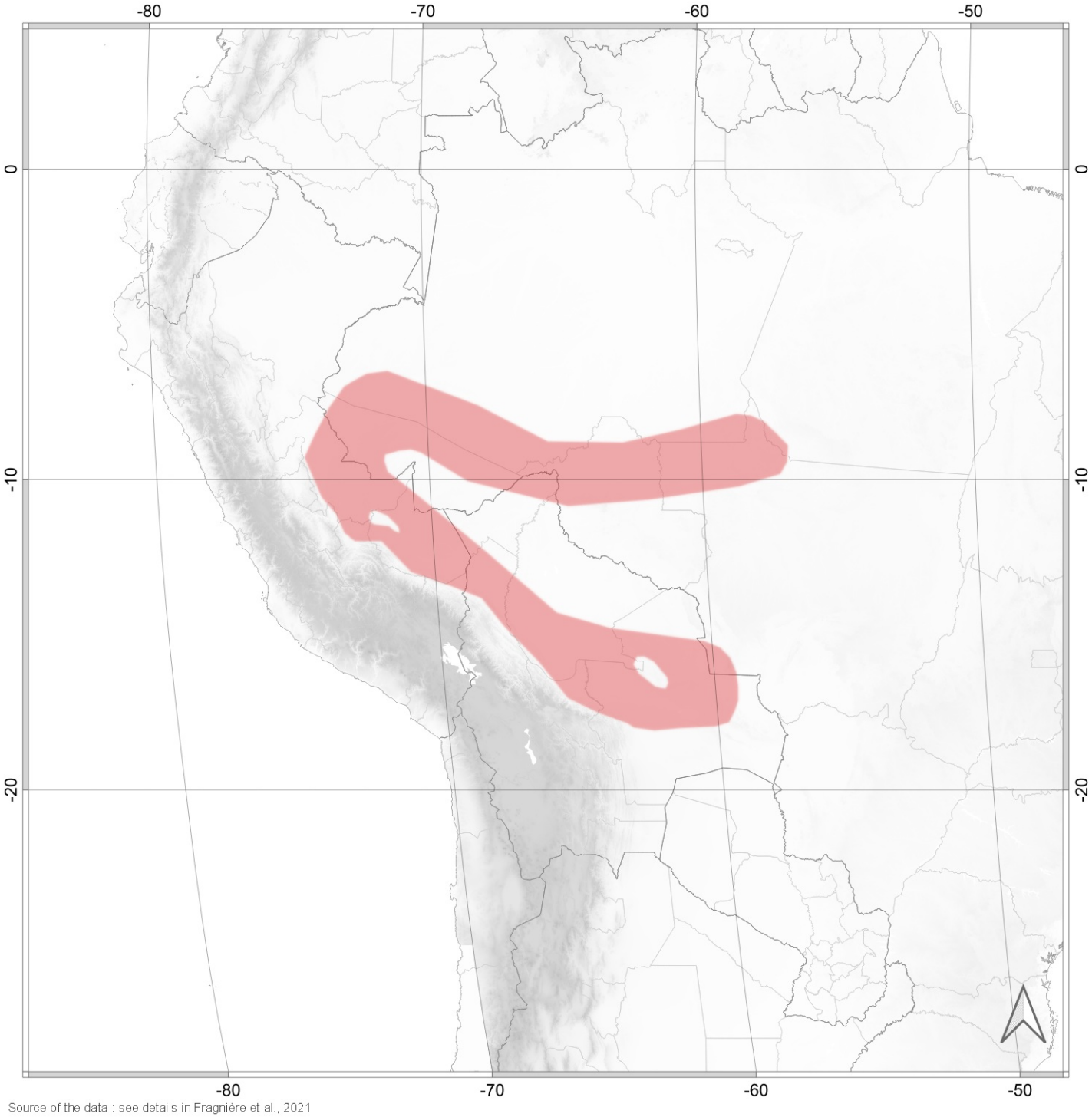
Klotzsch

Linnaea 20(5): 542 (1847)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : lowland rainforests
*
climate - Köppen classification : Af, Am, (Aw)
*
indicative altitudinal range : 0 - 500 m
*
min. latitude : -18.1, max. latitude : -6.5,
min. longitude : -74.6, max. longitude : -56.8





Source of the data : see details in Fragnière et al., 2021

Hemiptelea davidii

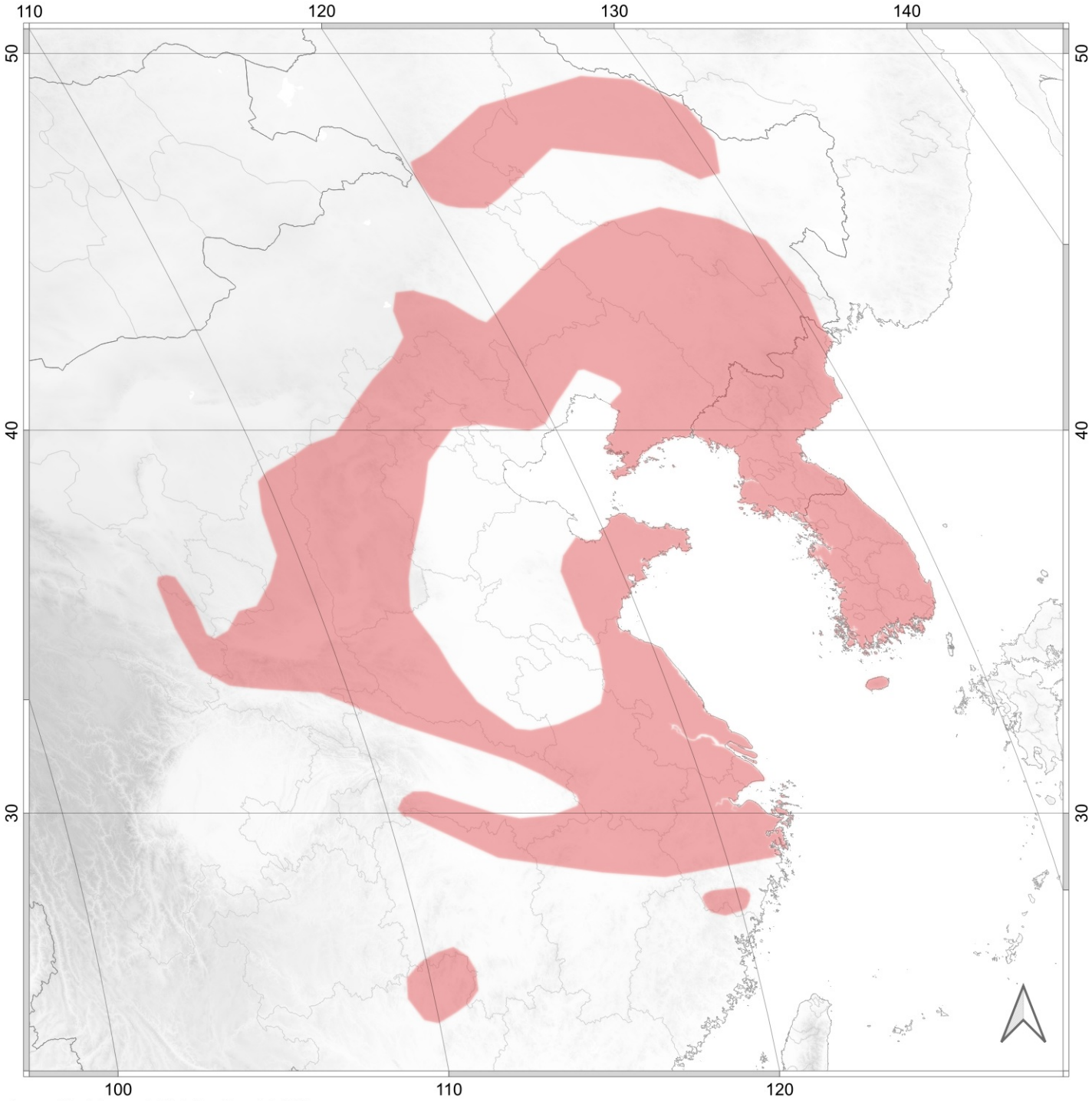
ULMACEAE

(Hance) Planch.

Compt. Rend. Hebd. Séances Acad. Sci. 74: 131 (1872)

IUCN Red list status : LC
*
habitat-ecology : hill slopes, trail sides, planted around houses
*
climate - Köppen classification : Dwa, Dwb, Cfa, Cfb, (BSk), (Dfa), (Dwc)
*
indicative altitudinal range : 0 - 2000 m
*
min. latitude : 24.5, max. latitude : 49.4,
min. longitude : 105.2, max. longitude : 130.7





Source of the data : see details in Fragnière et al., 2021

Holoptelea grandis

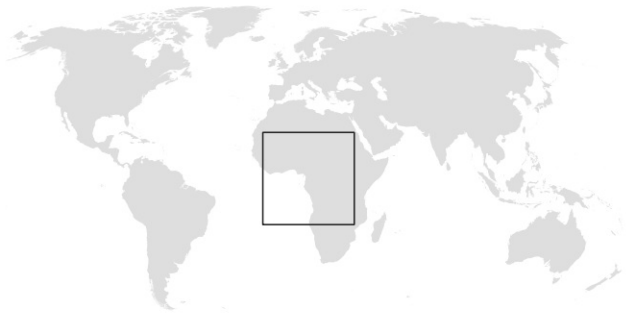
ULMACEAE

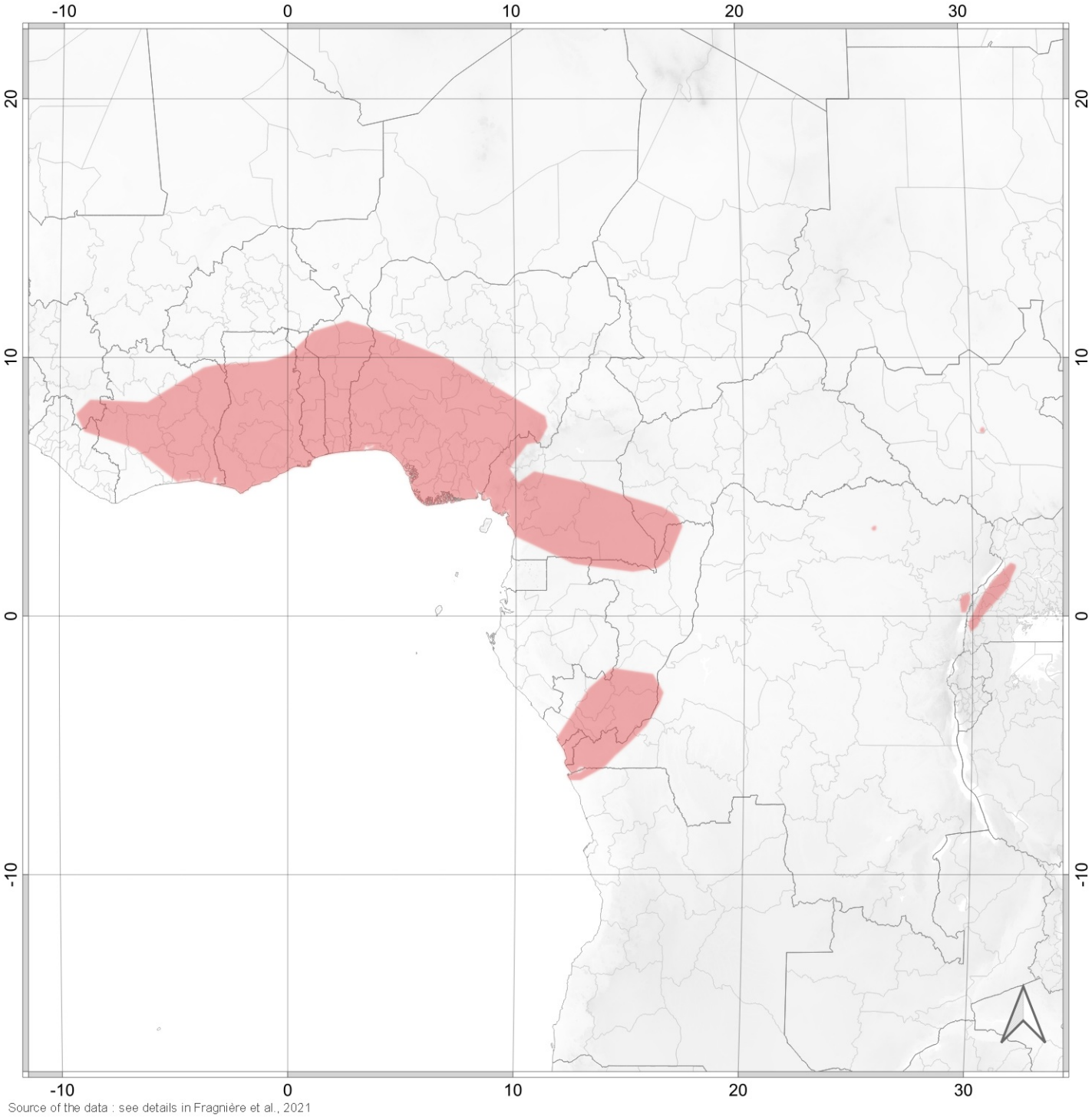
(Hutch.) Mildbr.

Notizbl. Bot. Gart. Berlin-Dahlem 8: 53 (1921)

IUCN Red list status : LC
*
habitat-ecology : rain-forests, drier deciduous and riverine forests, patches of rain-forests in savanna zone
*
climate - Köppen classification : Aw, Am, (Af)
*
indicative altitudinal range : 0 - 1200 m
*
min. latitude : -6.3, max. latitude : 11.4,
min. longitude : -9.3, max. longitude : 31.9

higher elevation in Uganda (>1400m)





Source of the data : see details in Fragnière et al., 2021

Holoptelea integrifolia

ULMACEAE

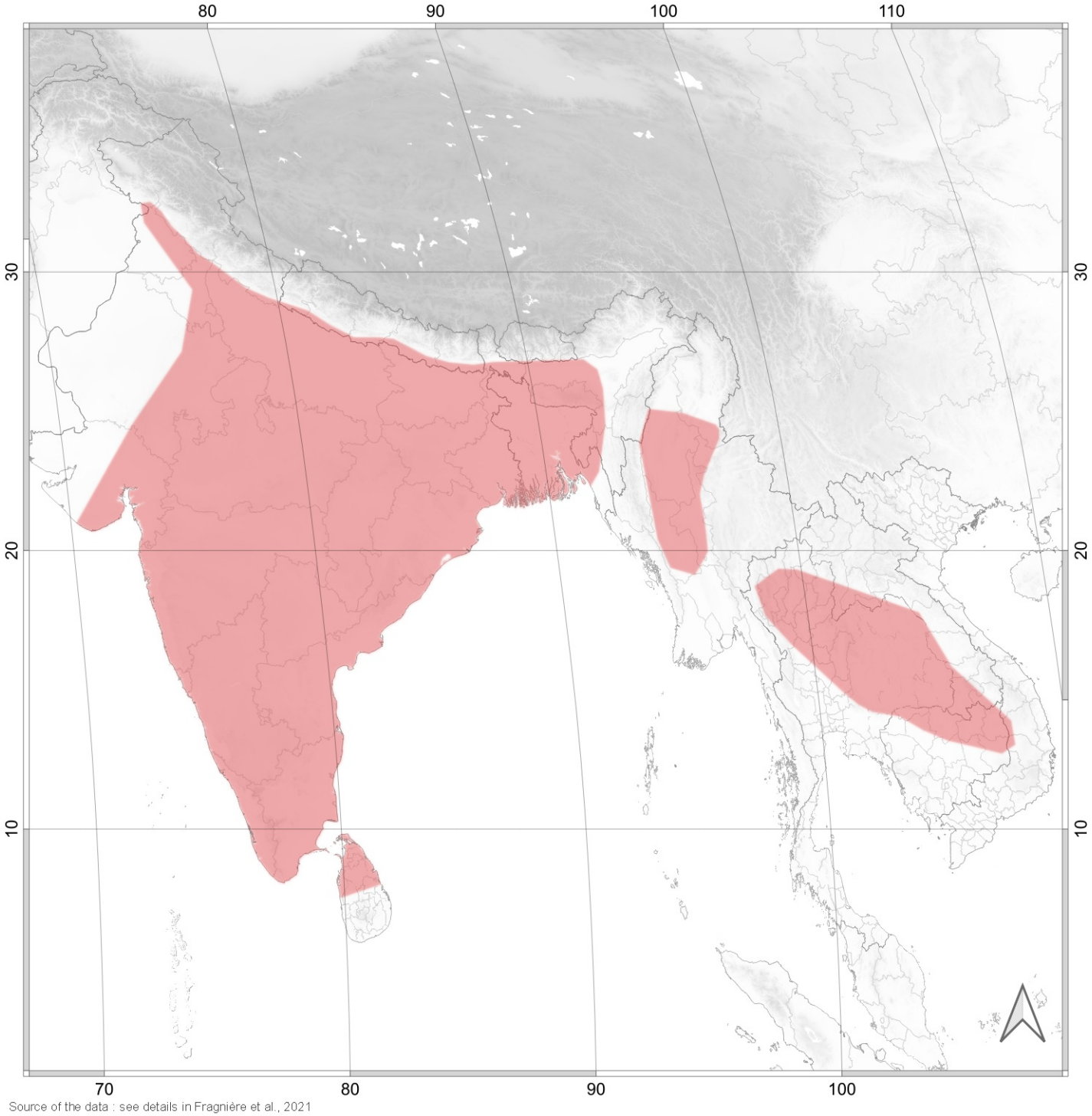
(Roxb.) Planch.

Ann. Sci. Nat., Bot. sér. 3, 10: 259 (1848)

IUCN Red list status : ne
*
habitat-ecology : dry deciduous forests, deforested areas, near town and villages, cultivated areas
*
climate - Köppen classification : Aw, BSh, Cwa, Am
*
indicative altitudinal range : 0 - 800 m
*
min. latitude : 7.5, max. latitude : 32.5,
min. longitude : 70.2, max. longitude : 107.9

distribution not precise, lacking good references





Source of the data : see details in Fragnière et al., 2021

Phyllostylon brasiliense

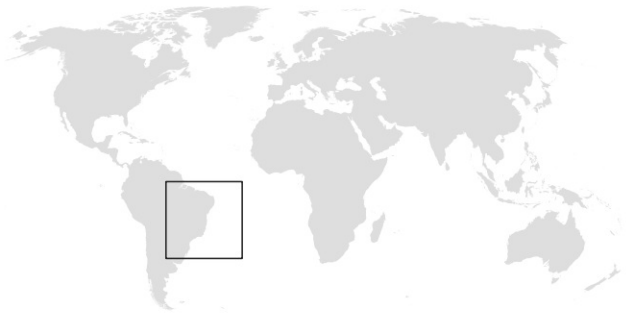
ULMACEAE

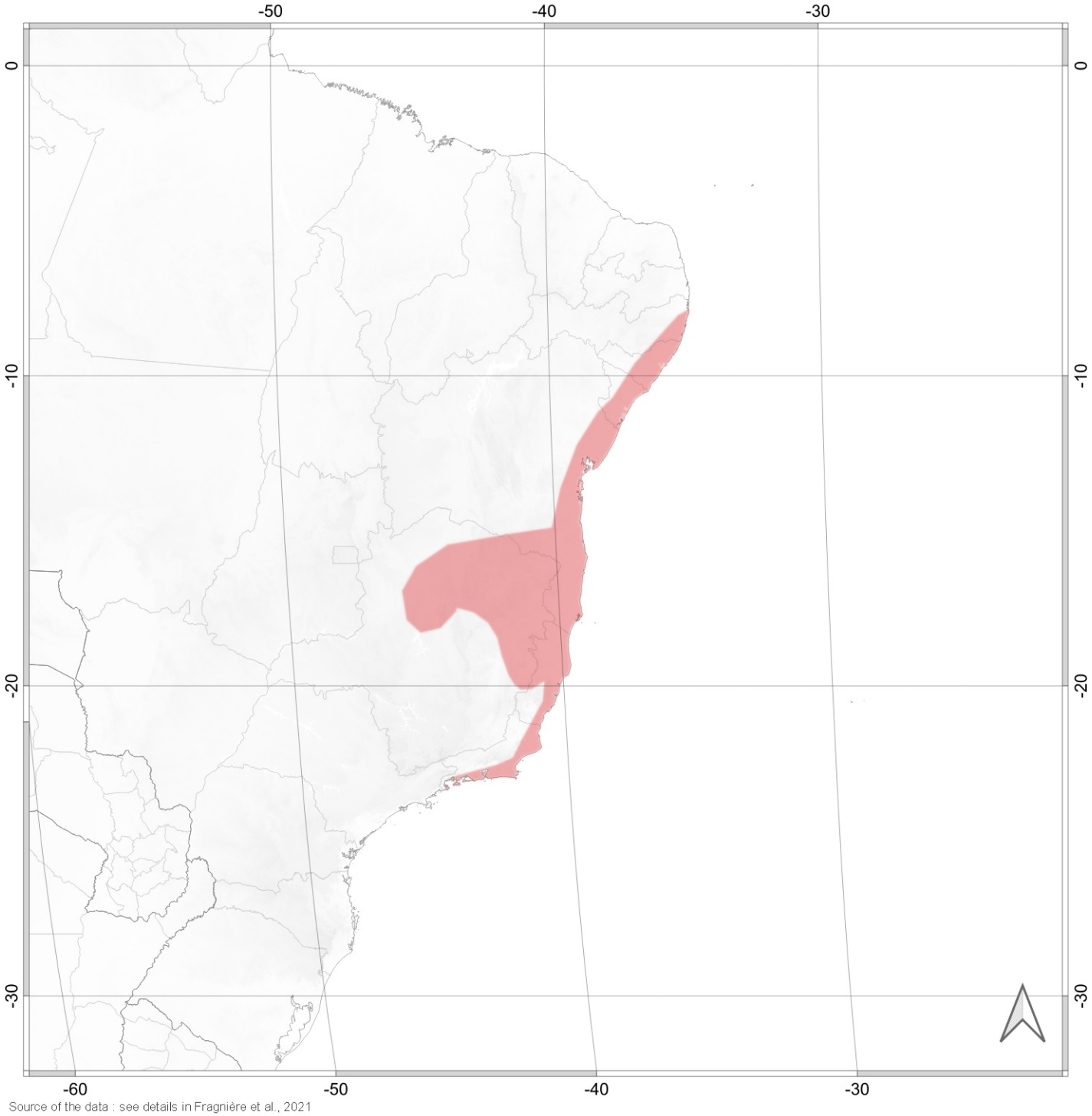
Capan. ex Benth. & Hook. f.

Gen. Pl. 3: 352 (1880)

IUCN Red list status : ne
*
habitat-ecology : ombrophylous forests
*
climate - Köppen classification : Af, Am, Aw
*
indicative altitudinal range : 0 - 1300 m
*
min. latitude : -23.4, max. latitude : -7.9,
min. longitude : -45.8, max. longitude : -34.8

distribution varies between sources. min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Phyllostylon rhamnoides

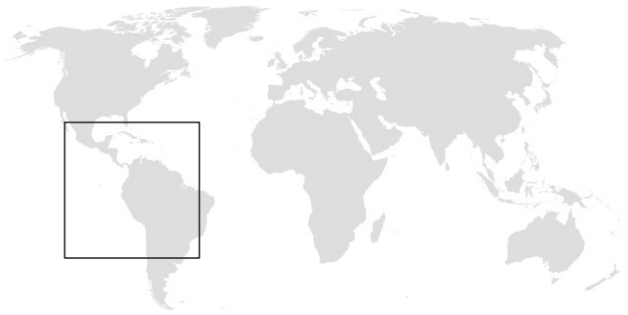
ULMACEAE

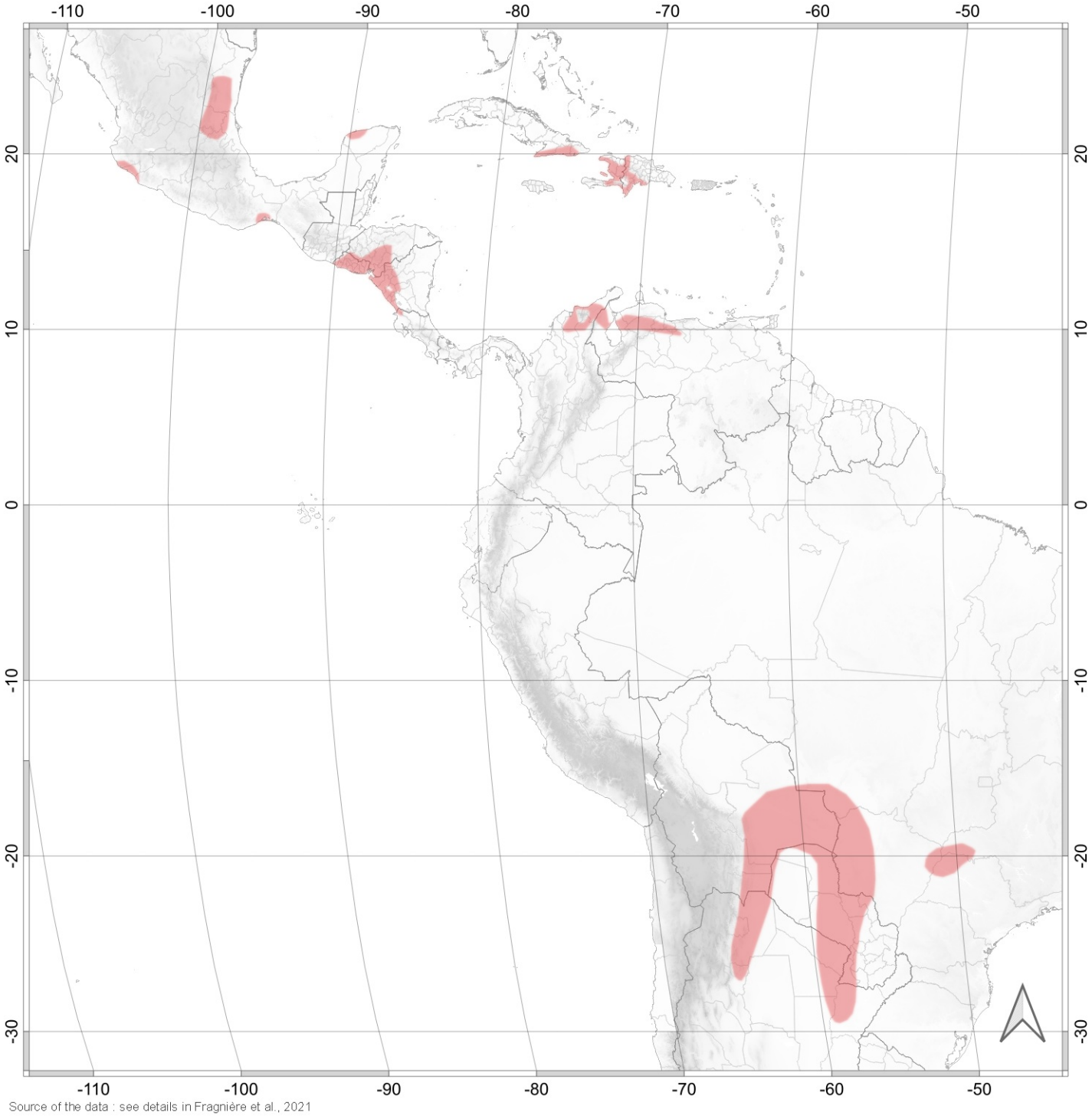
(J.Poiss.) Taub

Oesterr. Bot. Z. 40: 409 (1890)

IUCN Red list status : LC
*
habitat-ecology : variety of habitat in dry tropical forest zones. Scrub forests, moist forests, open savannas
*
climate - Köppen classification : Aw, BSh, (Cwa, Cfa)
*
indicative altitudinal range : 0 - 1500 m
*
min. latitude : -29.5, max. latitude : 24.4,
min. longitude : -105.2, max. longitude : -48.7

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Planera aquatica

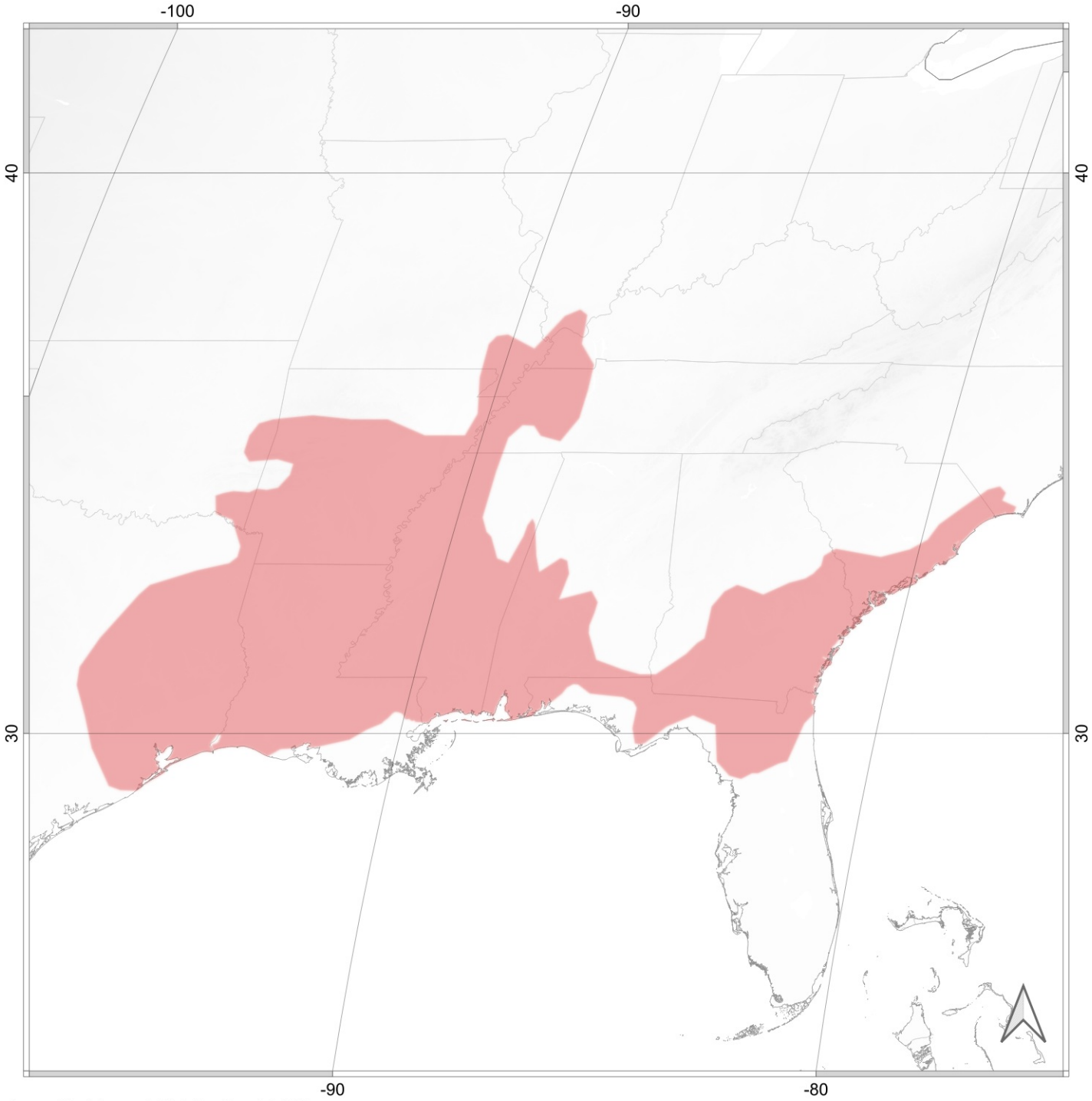
J.F.Gmel.

Syst. Nat., ed. 13[bis]. 2(1): 150 (1791)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : swamps, streams, lakes, alluvial flood plains
*
climate - Köppen classification : Cfa
*
indicative altitudinal range : 0 - 200 m
*
min. latitude : 29, max. latitude : 37.6,
min. longitude : -97.1, max. longitude : -78.2





Source of the data : see details in Fragnière et al., 2021

Ulmus alata

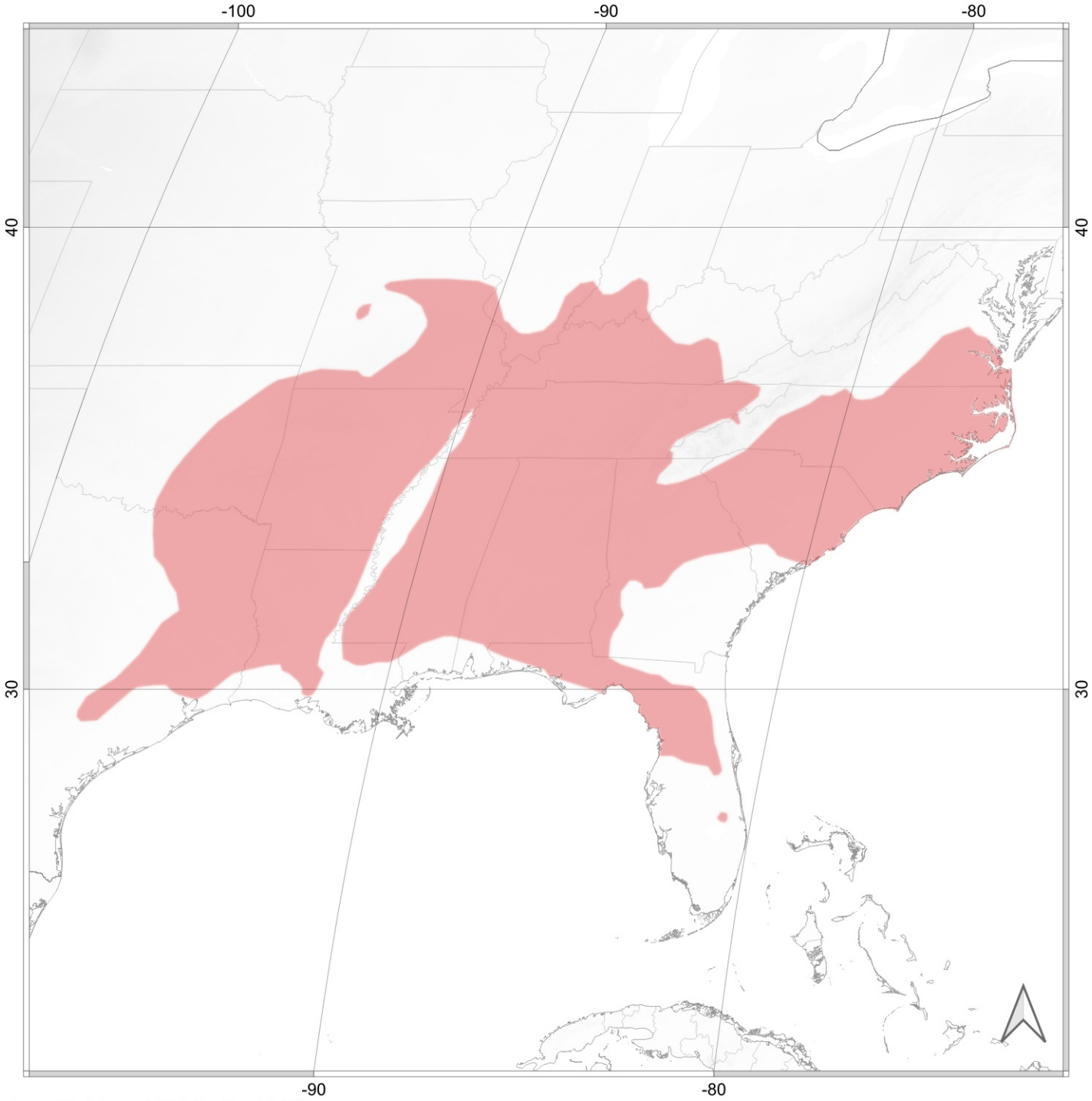
ULMACEAE

Michx.

Fl. Bor.-Amer. (Michaux) 1: 173 (1803)

IUCN Red list status : LC
*
habitat-ecology : alluvial woods and deciduous woodlands, especially dry, acidic woodlands and glades, along fencerows, waste areas
*
climate - Köppen classification : Cfa, (Dfa)
*
indicative altitudinal range : 0 - 600 m
*
min. latitude : 27.1, max. latitude : 38.9,
min. longitude : -97.7, max. longitude : -75.5





Source of the data : see details in Fragnière et al., 2021

Ulmus americana

L.

Sp. Pl. 1: 226 (1753)

ULMACEAE

IUCN Red list status : EN

*

habitat-ecology : alluvial woods, swamp forests, deciduous woodlands, fencerows, pastures, old fields

*

climate - Köppen classification : Cfa, Dfa, Dfb

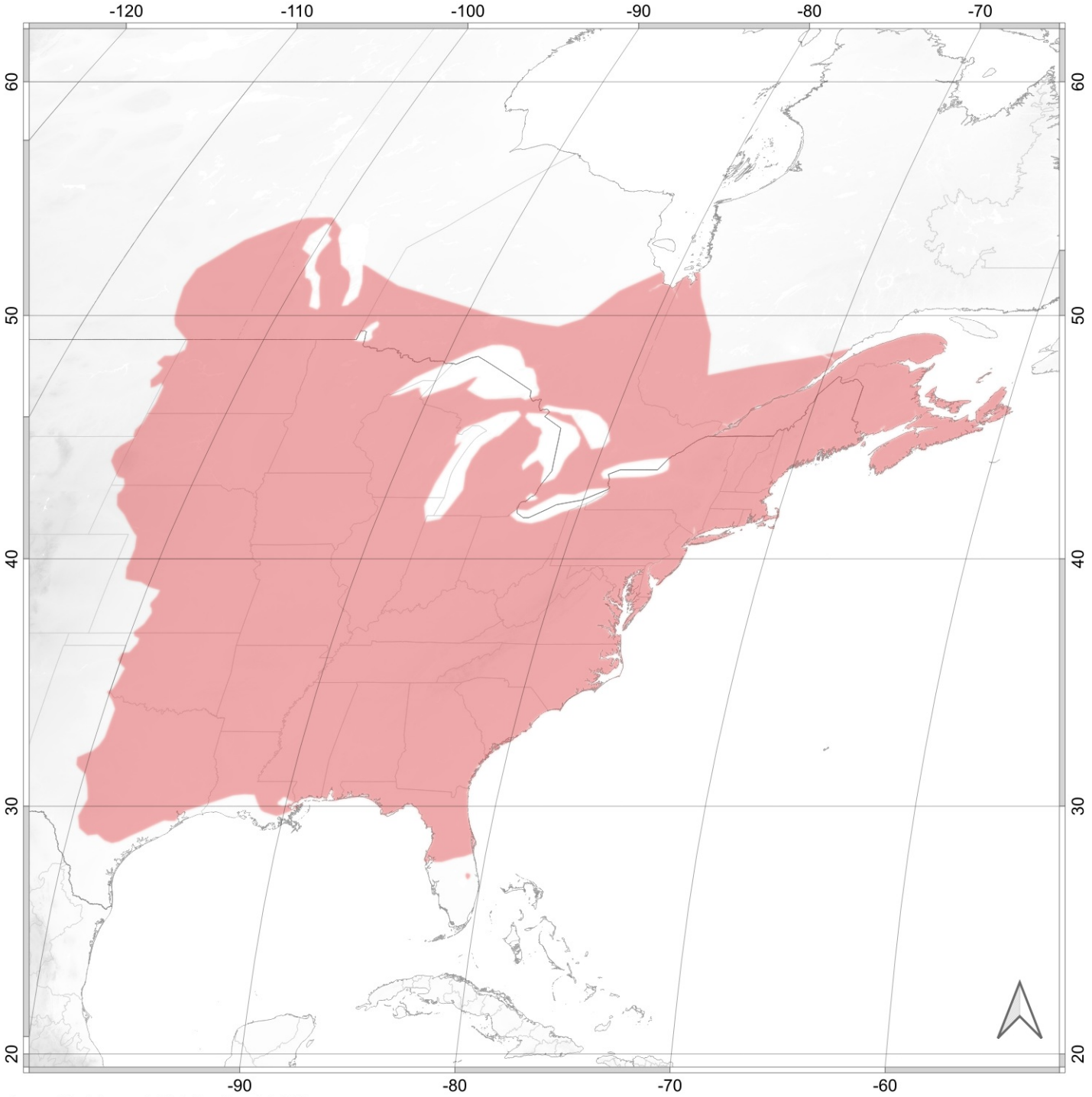
*

indicative altitudinal range : 0 - 1400 m

*

min. latitude : 27.1, max. latitude : 54.1,
min. longitude : -105.8, max. longitude : -59.7





Source of the data : see details in Fragnière et al., 2021

Ulmus androssowii

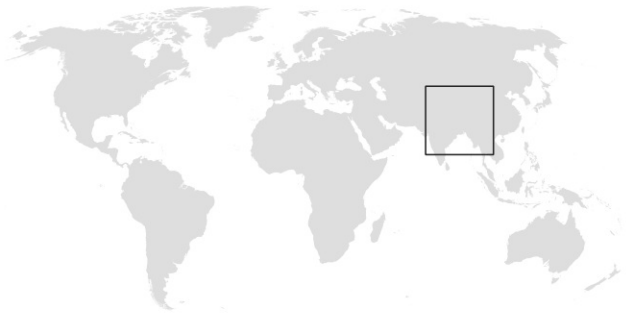
ULMACEAE

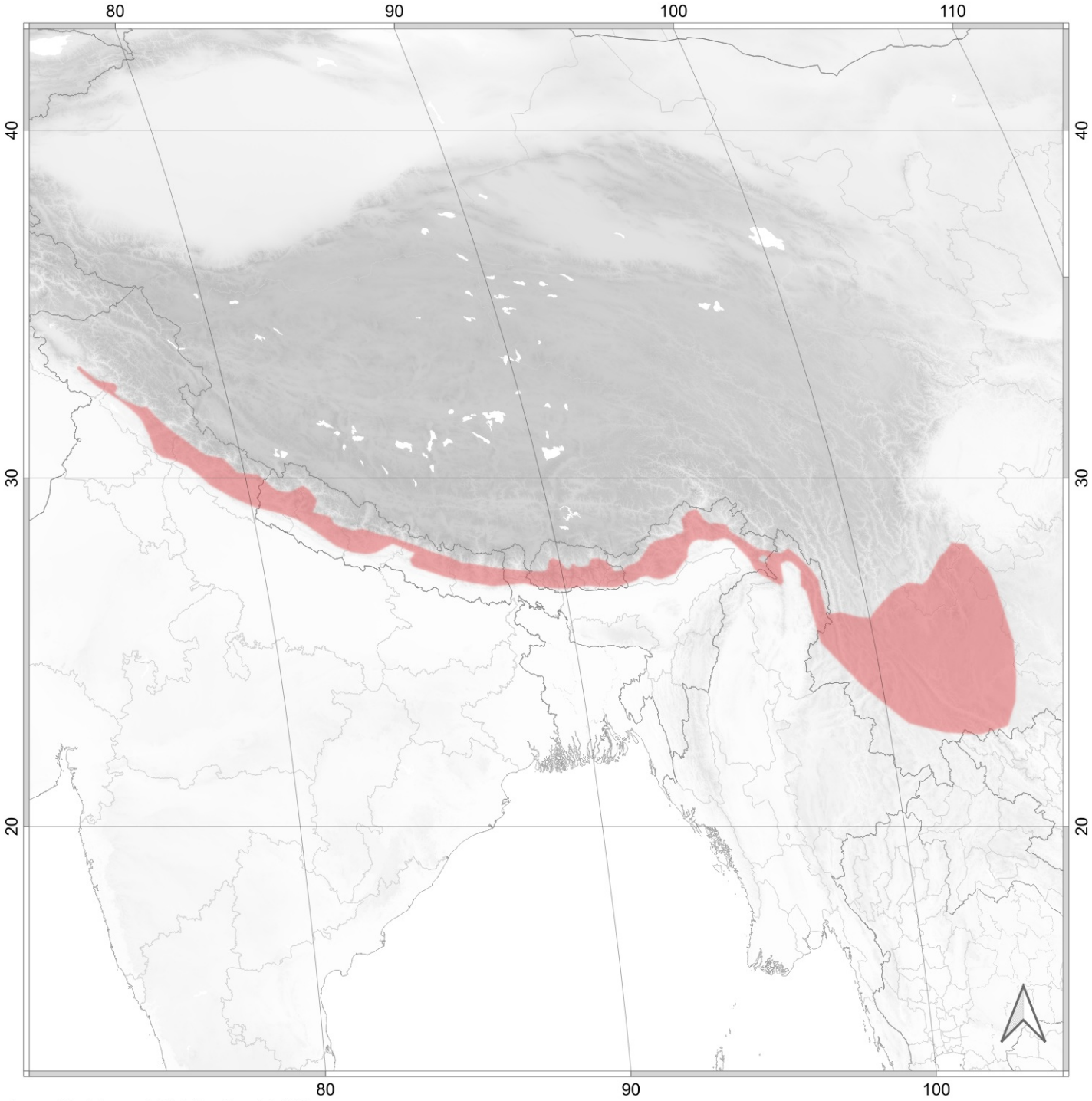
Litv.

Sched. Herb. Fl. Ross. viii. 23 (1922)

IUCN Red list status : ne
*
habitat-ecology : broad-leaved forests on mountain slopes and in valleys
*
climate - Köppen classification : Cwb, Cwa
*
indicative altitudinal range : 1200 - 2800 m
*
min. latitude : 22.7, max. latitude : 33.2,
min. longitude : 75.1, max. longitude : 104.7

synonym : U. chumlia





Source of the data : see details in Fragnière et al., 2021

Ulmus bergmanniana

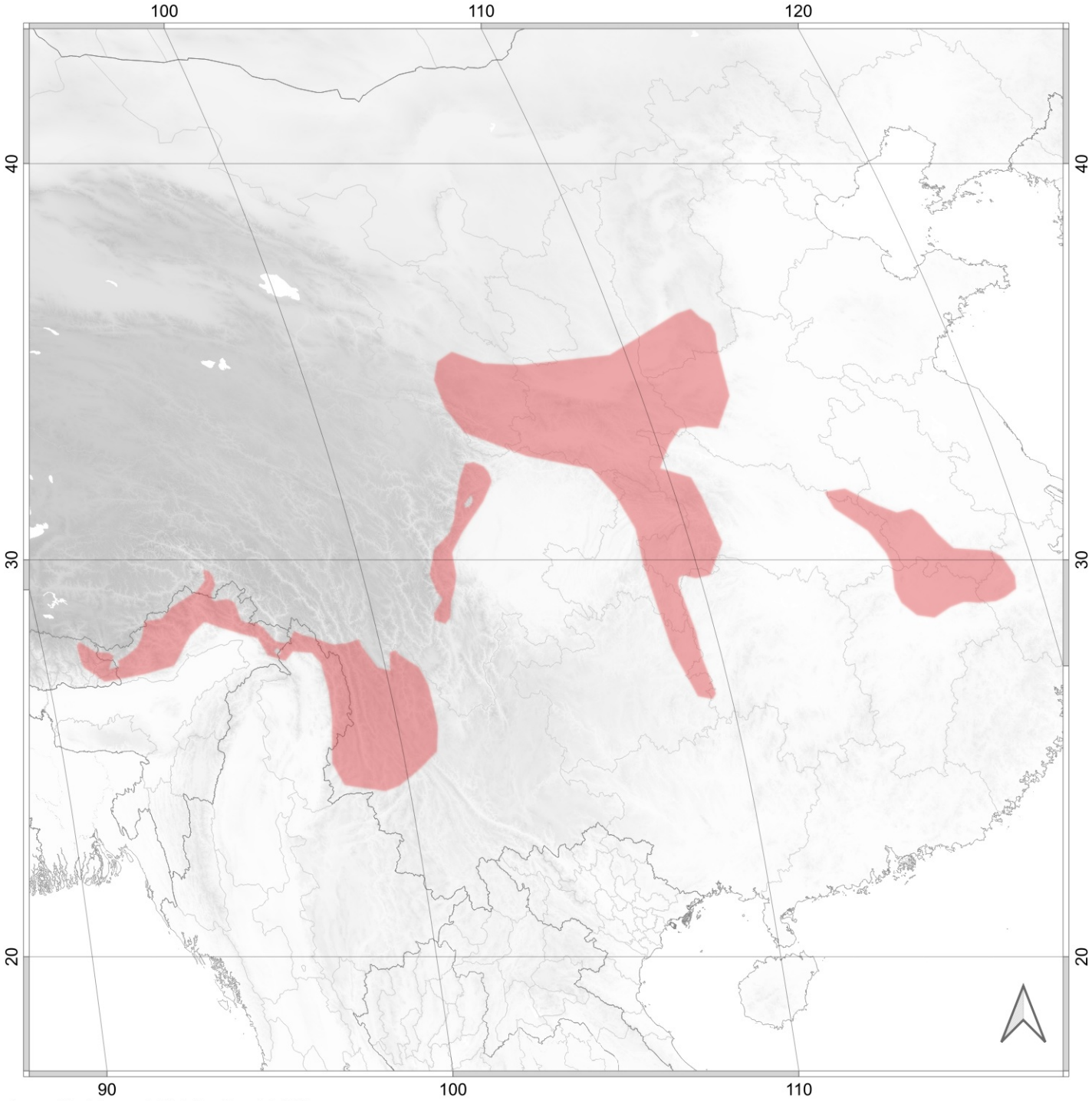
C.K.Schneid.

Ill. Handb. Laubholzk. ii 902 (1912)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : forests
*
climate - Köppen classification : Cwb, Cwa, Cfa, Dwa, Dwb
*
indicative altitudinal range : 1500 - 2900 m
*
min. latitude : 24.2, max. latitude : 36.3,
min. longitude : 91, max. longitude : 119.4





Source of the data : see details in Fragnière et al., 2021

Ulmus castaneifolia

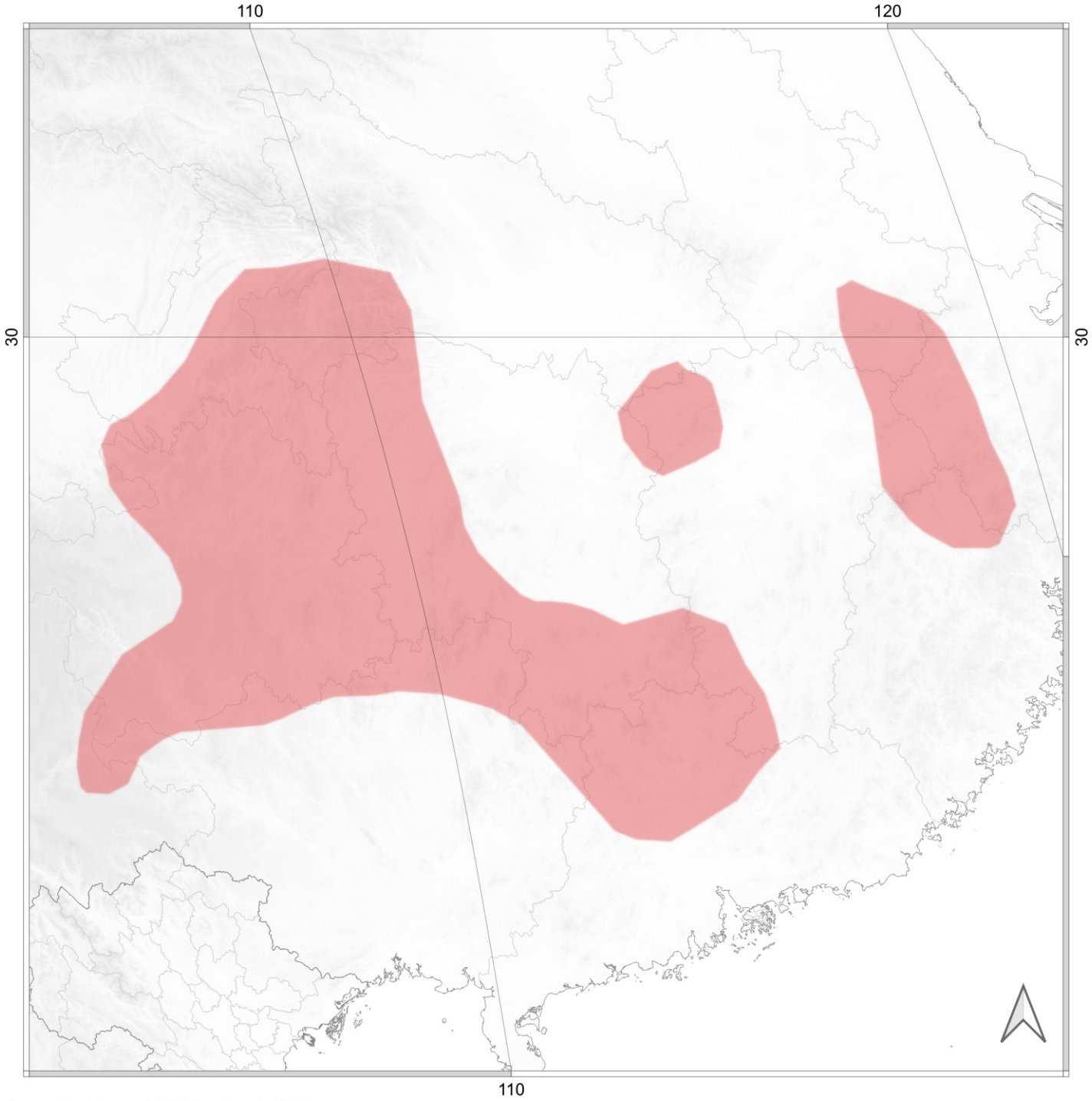
Hemsl.

J. Linn. Soc., Bot. 26(177): 446–447, pl. 10 (1894)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : broad-leaved forests
*
climate - Köppen classification : Cfa, Cwa
*
indicative altitudinal range : 500 - 1600 m
*
min. latitude : 23.4, max. latitude : 31,
min. longitude : 104.2, max. longitude : 119.5





Source of the data : see details in Fragnière et al., 2021

Ulmus changii

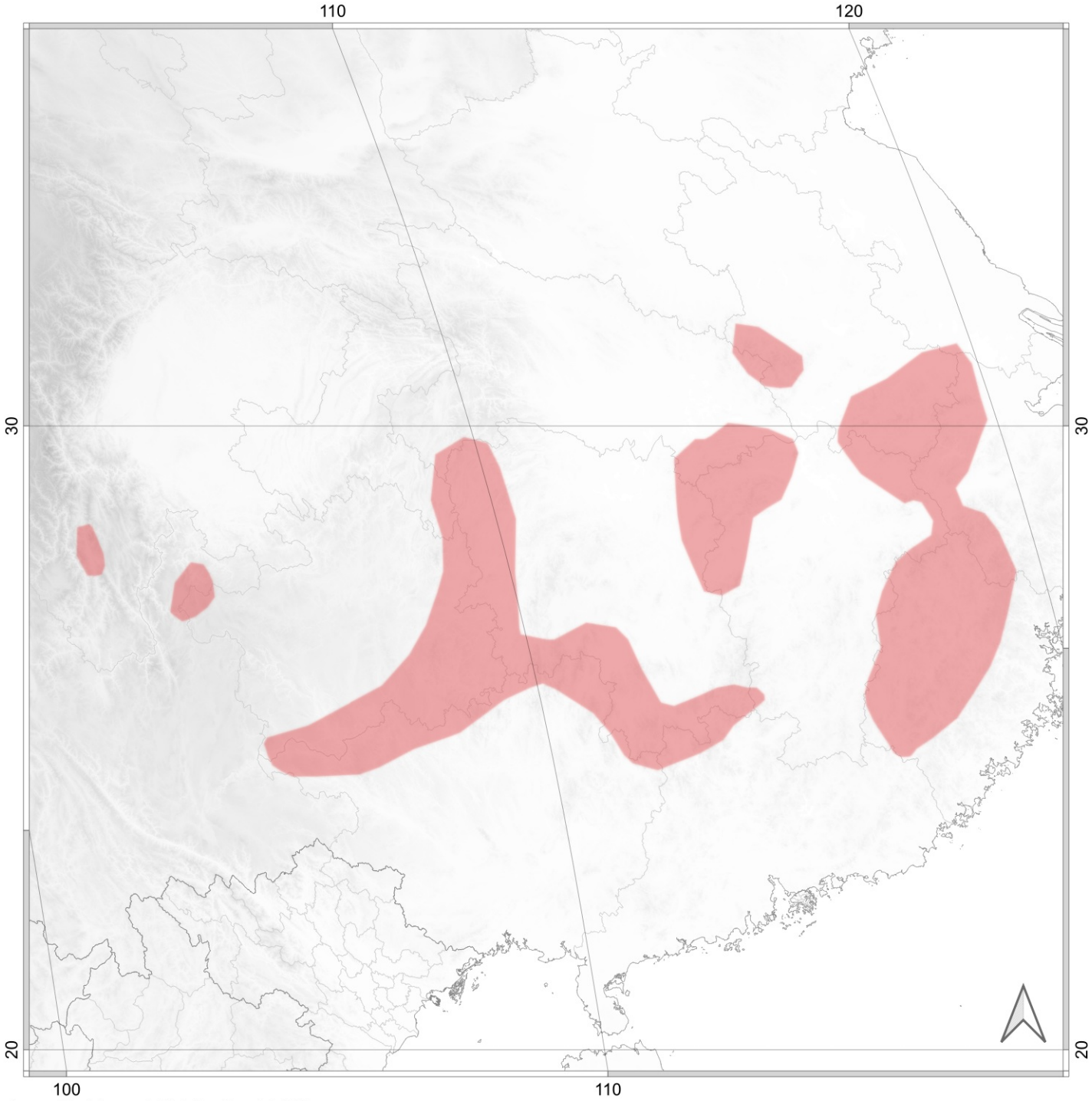
ULMACEAE

W.C.Cheng

Contr. Biol. Lab. Sci. Soc. China, Bot. Ser. 10: 94 (1936)

IUCN Red list status : ne
*
habitat-ecology : montane forests
*
climate - Köppen classification : Cfa, (Cwa)
*
indicative altitudinal range : 200 - 1800 m
*
min. latitude : 24.4, max. latitude : 31.6,
min. longitude : 101.9, max. longitude : 119.9





Source of the data : see details in Fragnière et al., 2021

Ulmus chenmoui

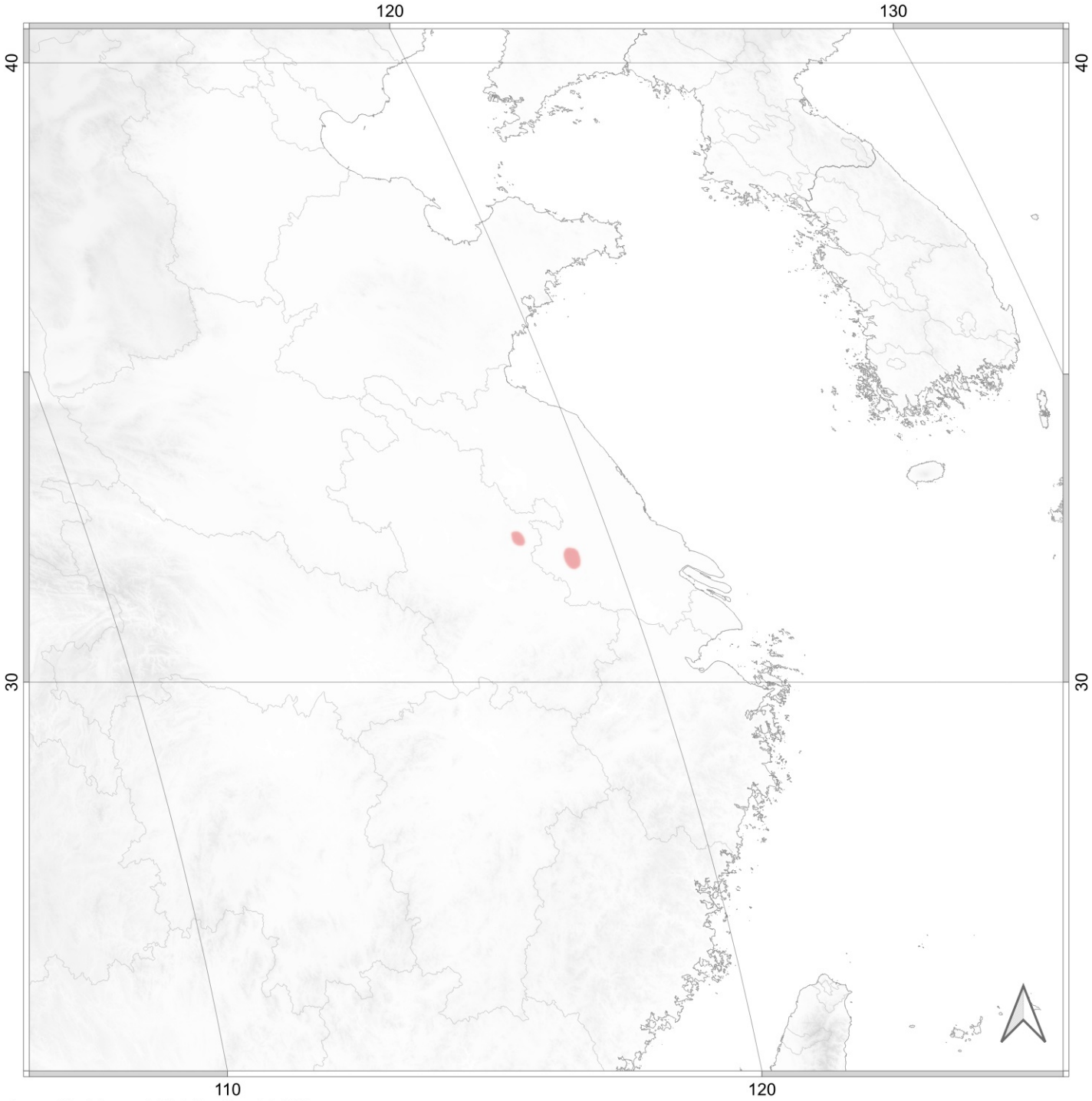
ULMACEAE

W.C.Cheng

J. Nanjing Forest. Coll. 1: 69 (68-70) (1958)

IUCN Red list status : EN
*
habitat-ecology : deciduous broadleaved forest on limestone hills
*
climate - Köppen classification : Cfa
*
indicative altitudinal range : 100 - 200 m
*
min. latitude : 31.8, max. latitude : 32.4,
min. longitude : 118.1, max. longitude : 119.3





Source of the data : see details in Fragnière et al., 2021

Ulmus crassifolia

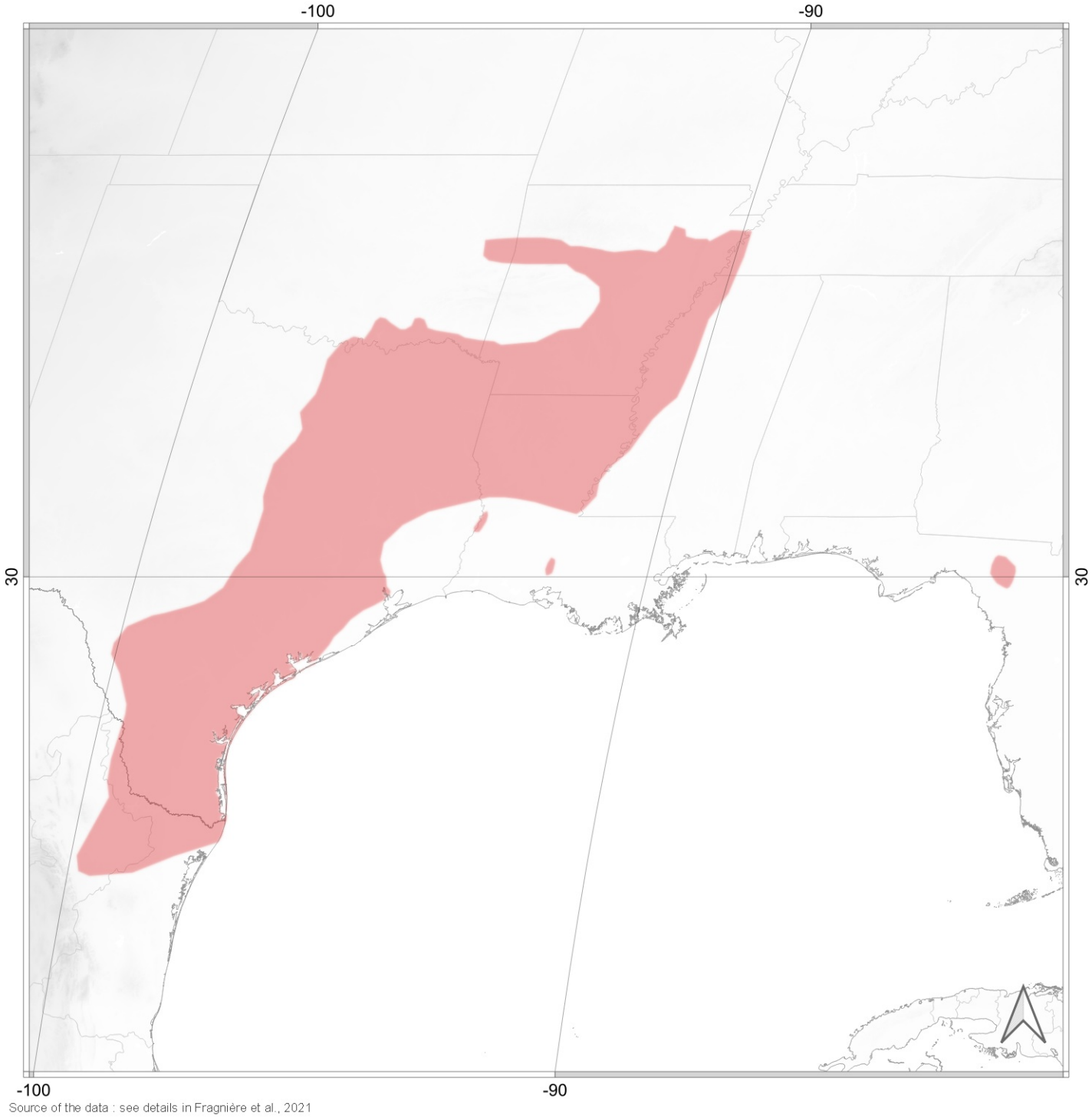
ULMACEAE

Nutt.

Trans. Amer. Philos. Soc. ser. 2, 5: 169 (1835)

IUCN Red list status : LC
*
habitat-ecology : stream banks, low woods, low hillsides, roadsides, waste places
*
climate - Köppen classification : Cfa, BSh
*
indicative altitudinal range : 0 - 500 m
*
min. latitude : 25.1, max. latitude : 35.8,
min. longitude : -100.1, max. longitude : -82.8





Source of the data : see details in Fragnière et al., 2021

Ulmus davidiana

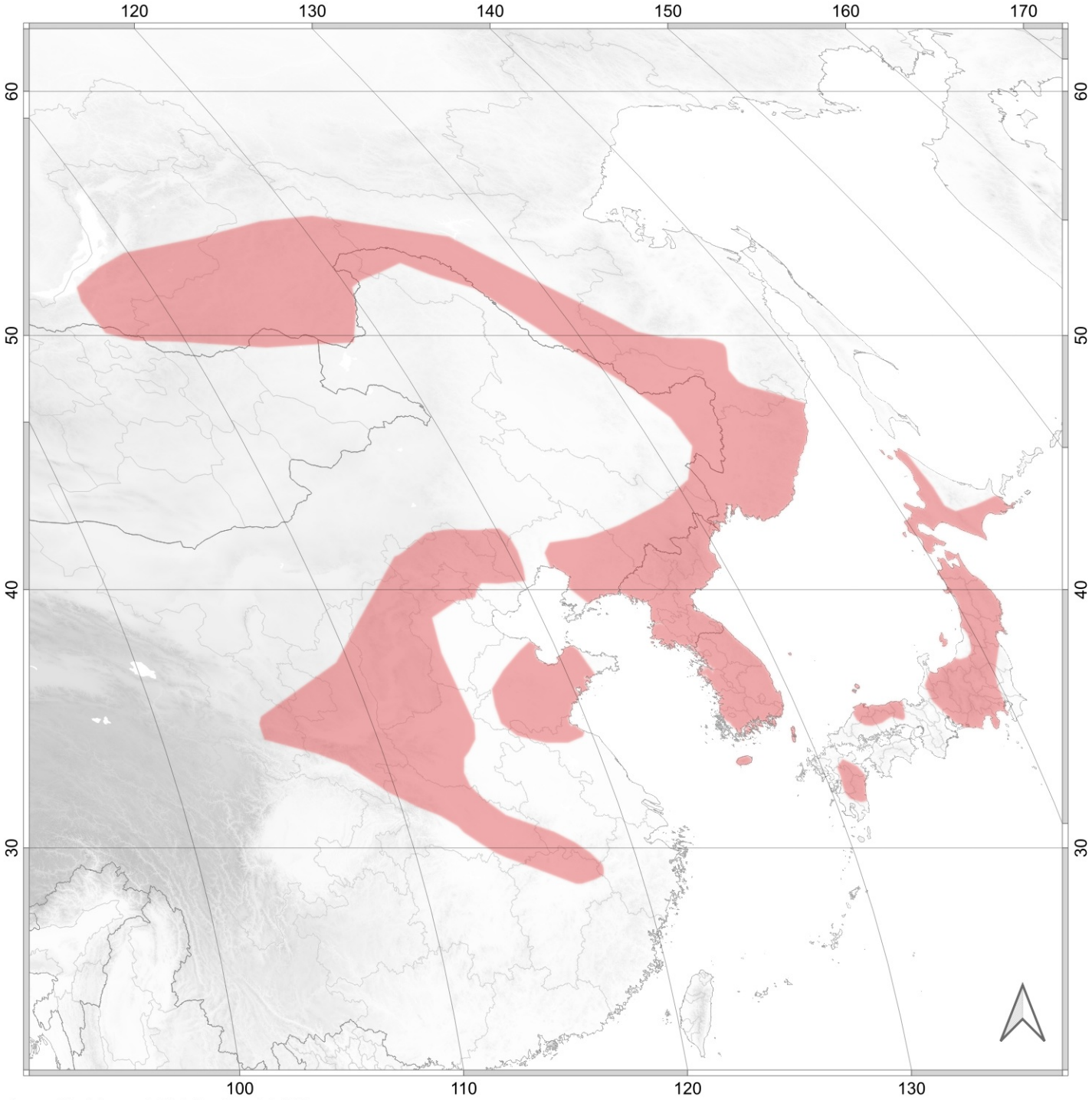
ULMACEAE

Planch.

Prodr. 17: 158 (1873)

IUCN Red list status : LC
*
habitat-ecology : slopes, wetlands near streams, valleys
*
climate - Köppen classification : Dwa, Dwb, Dwc, Cwa, Cfa, Dfa, Dfb, (BSk)
*
indicative altitudinal range : 0 - 2300 m
*
min. latitude : 28.6, max. latitude : 54.8,
min. longitude : 104.7, max. longitude : 145.8





Source of the data : see details in Fragnière et al., 2021

Ulmus elongata

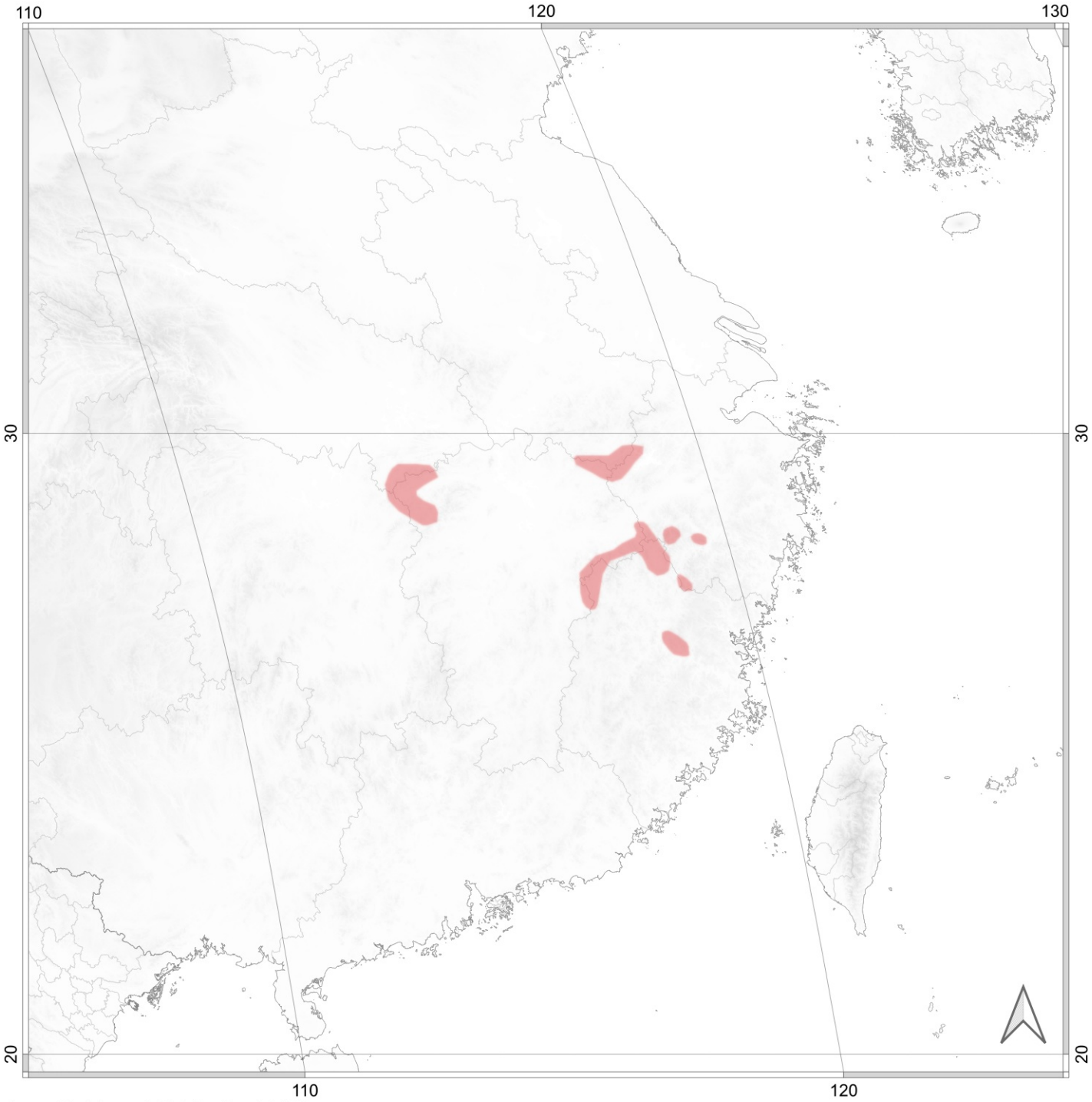
ULMACEAE

L.K.Fu & C.S.Ding

Acta Phytotax. Sin. 17(1): 46 (1979)

IUCN Red list status : VU
*
habitat-ecology : evergreen broad-leaved forests
*
climate - Köppen classification : Cfa
*
indicative altitudinal range : 200 - 900 m
*
min. latitude : 26.4, max. latitude : 29.8,
min. longitude : 113.8, max. longitude : 119.6





Source of the data : see details in Fragnière et al., 2021

Ulmus gaussenii

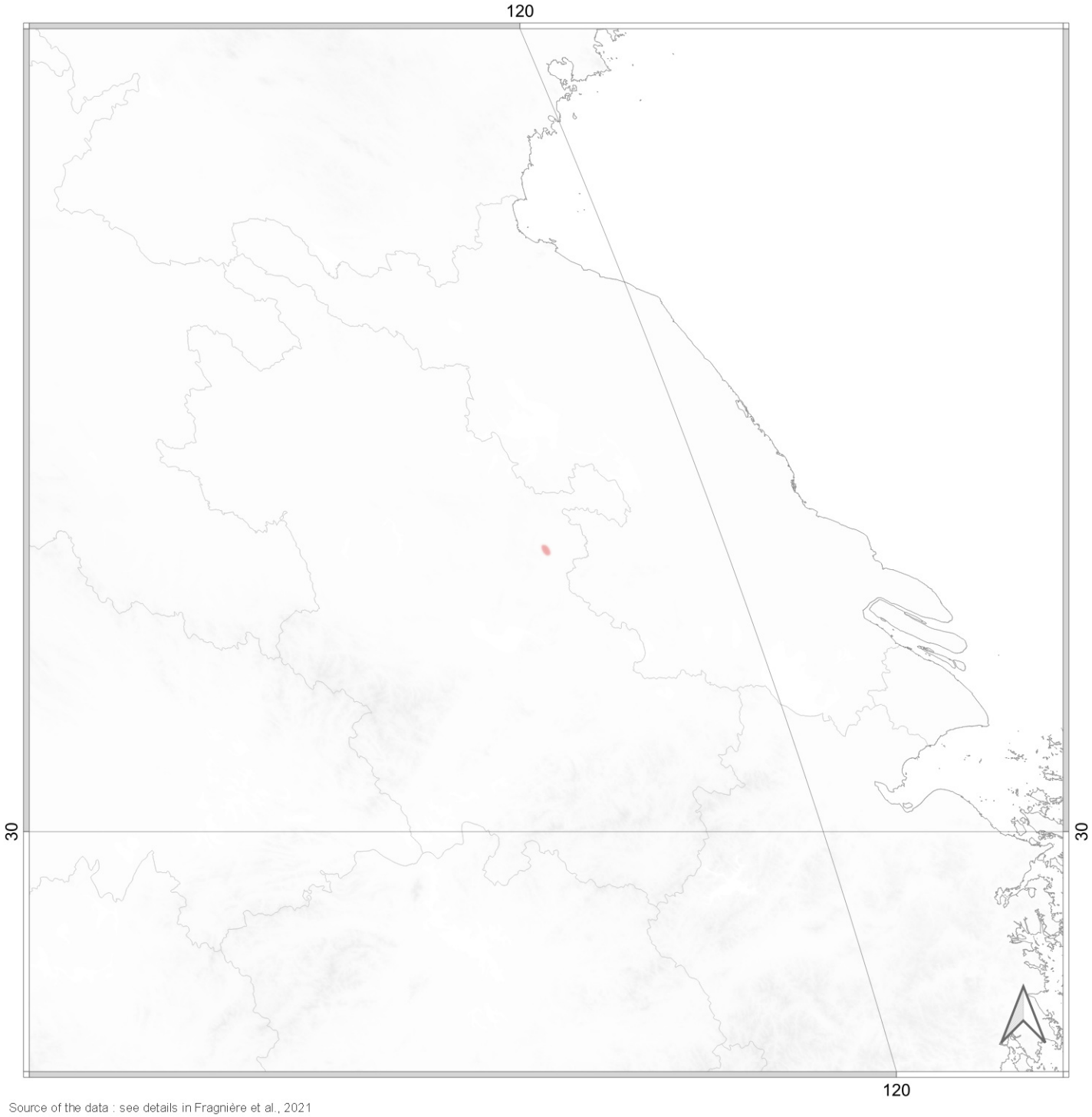
W.C. Cheng

Trav. Lab. Forest. Toulouse 3(3): 110, f. 1 (1939)

IUCN Red list status : CR
*
habitat-ecology : river banks, limestone mountains
*
climate - Köppen classification : Cfa
*
indicative altitudinal range : 0 - 300 m
*
min. latitude : 32.2, max. latitude : 32.3,
min. longitude : 118.2, max. longitude : 118.3

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus glabra

Huds.

Fl. Angl. (Hudson) 95 (1762)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : temperate forests with cool summers, moist forests with rich soils and high humidity
*
climate - Köppen classification : Dfb, Cfb, (Dfc), (Dfa), (Csb)
*
indicative altitudinal range : 0 - 1500 m
*
min. latitude : 35.8, max. latitude : 68.1,
min. longitude : -10.5, max. longitude : 60.7





Source of the data : see details in Fragnière et al., 2021

Ulmus glaucescens

ULMACEAE

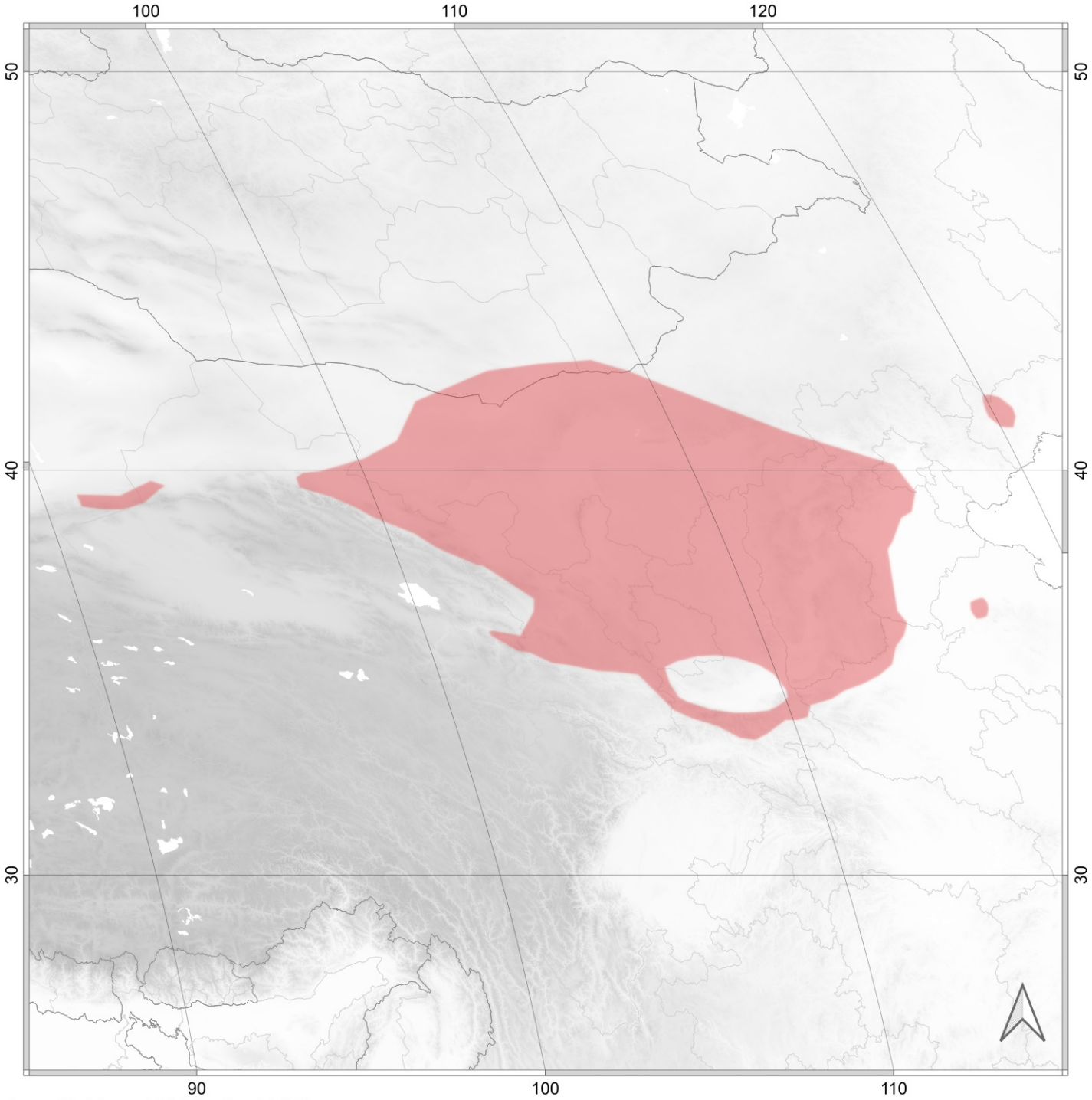
Franch.

Nouv. Arch. Mus. Hist. Nat., sér. 2, 7: 76–77, pl. 6, f. A (1884)

IUCN Red list status : ne
*
habitat-ecology : along rivers, mountain slopes, xeromorphic shrub and open forest
*
climate - Köppen classification : BSh, BSk, Dwa, Dwb
*
indicative altitudinal range : 500 - 2500 m
*
min. latitude : 33.3, max. latitude : 42.8,
min. longitude : 91.1, max. longitude : 120.7

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus harbinensis

ULMACEAE

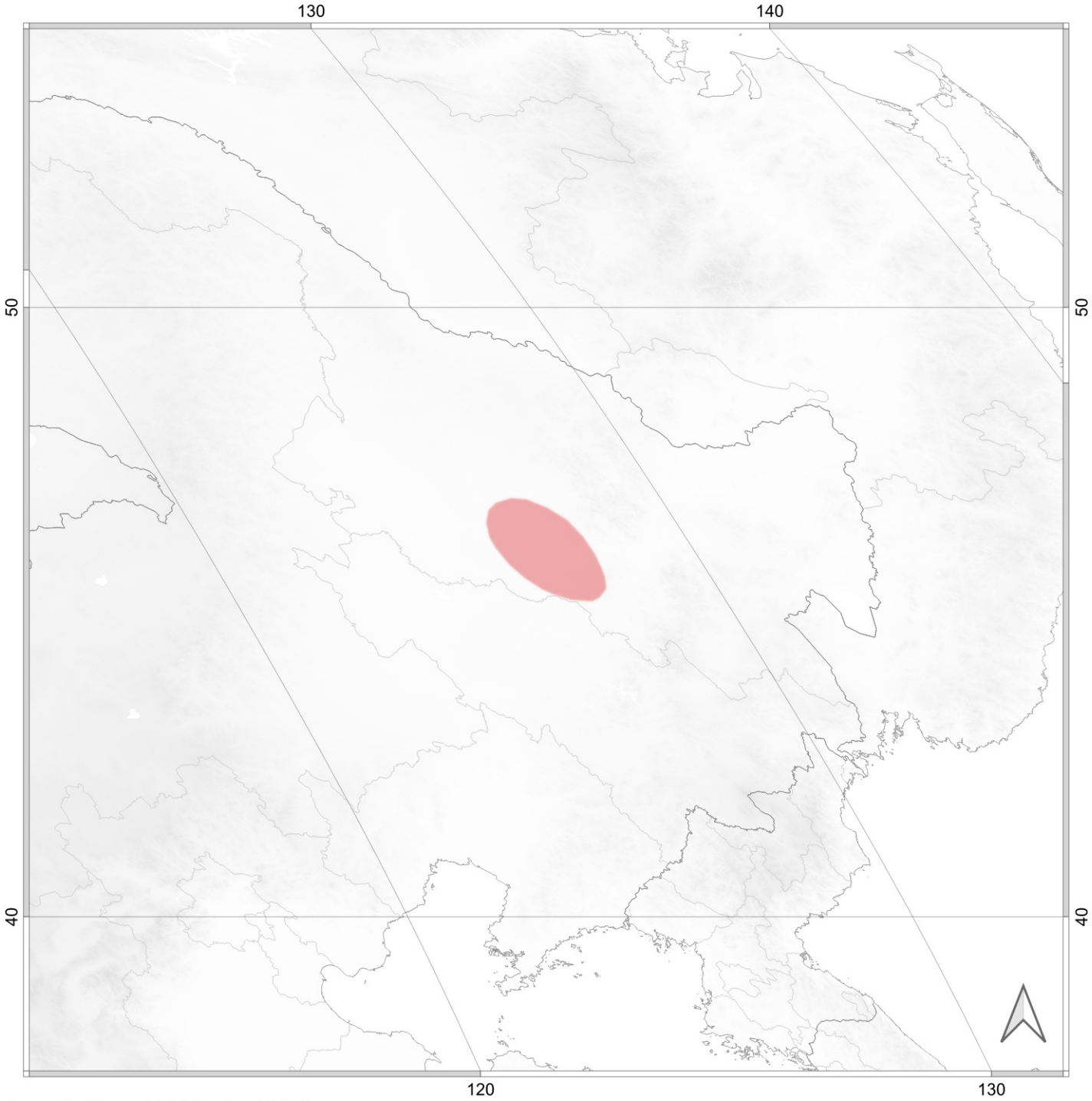
S.Q.Nie & G.Q.Huang

Bull. Bot. Res., Harbin 7(1): 151 (1987)

IUCN Red list status : ne
*
habitat-ecology : mixed woods
*
climate - Köppen classification : Dwa
*
indicative altitudinal range : 100 - 500 m
*
min. latitude : 45.1, max. latitude : 46.8,
min. longitude : 126, max. longitude : 127.9

poorly understood species should be reinvestigated. min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus ismaelis

Todzia & Panero

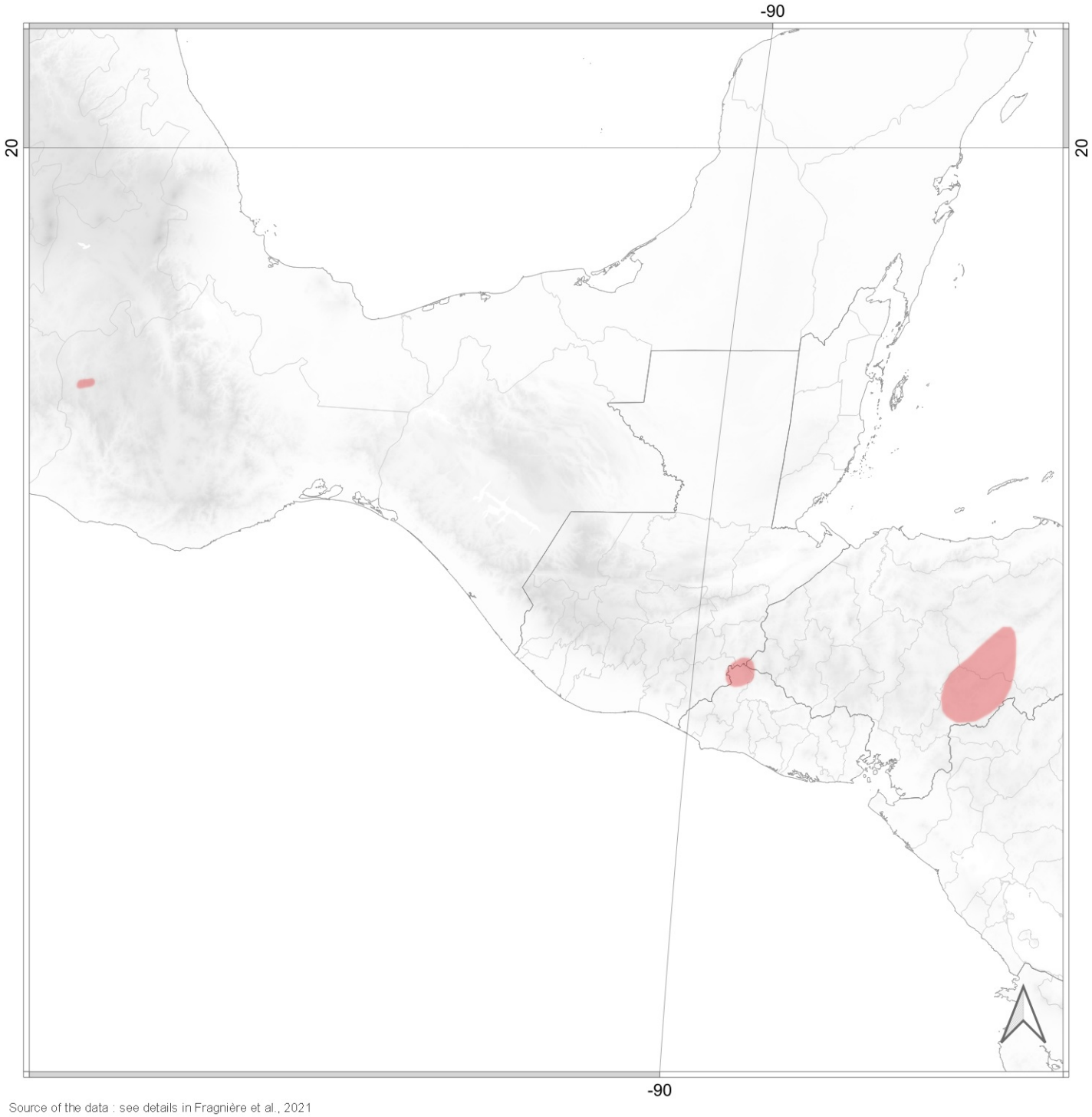
Brittonia 50(3): 343 (1998)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : riparian forests, canyons, near rivers
*
climate - Köppen classification : Aw, Cwb
*
indicative altitudinal range : 300 - 1500 m
*
min. latitude : 13.8, max. latitude : 17.5,
min. longitude : -98, max. longitude : -86

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus laciniata

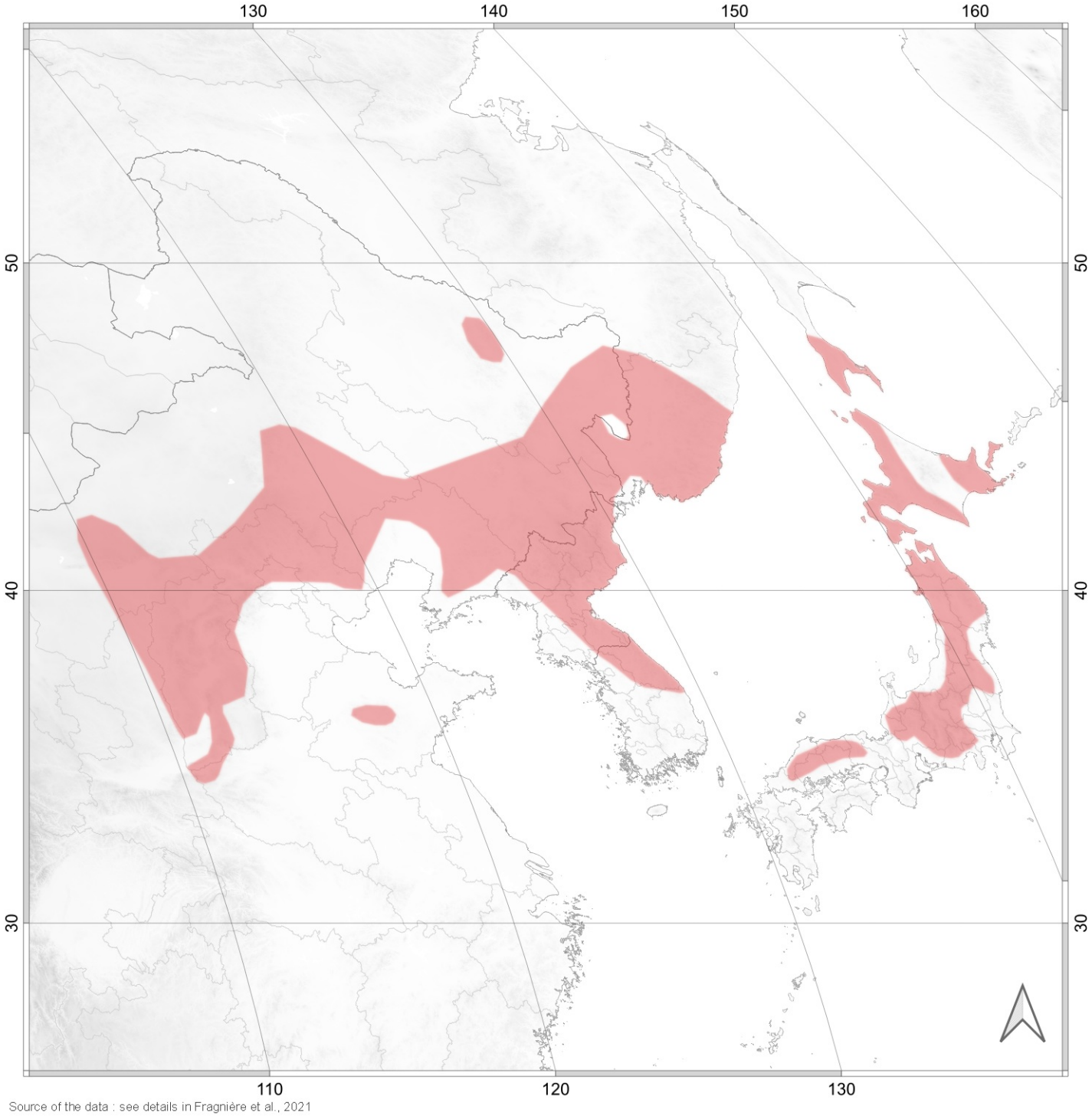
ULMACEAE

Mayr

Fremdländ. Wald- Parkbäume 523 (1906)

IUCN Red list status : LC
*
habitat-ecology : temperate forests
*
climate - Köppen classification : Dwa, Dwb, Dfa, Dfb, (Dwc), (BSk), (Dfc)
*
indicative altitudinal range : 0 - 2200 m
*
min. latitude : 34.2, max. latitude : 48.4,
min. longitude : 109.7, max. longitude : 146.6





Source of the data : see details in Fragnière et al., 2021

Ulmus laevis

Pall.

Fl. Ross. 1(1): 75 (1784)

ULMACEAE

IUCN Red list status : DD
*
habitat-ecology : riparian forests, along large rivers, thriving in damp, periodically flooded soils
*
climate - Köppen classification : Dfb, Cfb, (Dfc), (BSk)
*
indicative altitudinal range : 0 - 1000 m
*
min. latitude : 36.7, max. latitude : 63.1,
min. longitude : -6.8, max. longitude : 63.6





Source of the data : see details in Fragnière et al., 2021

Ulmus lamellosa

ULMACEAE

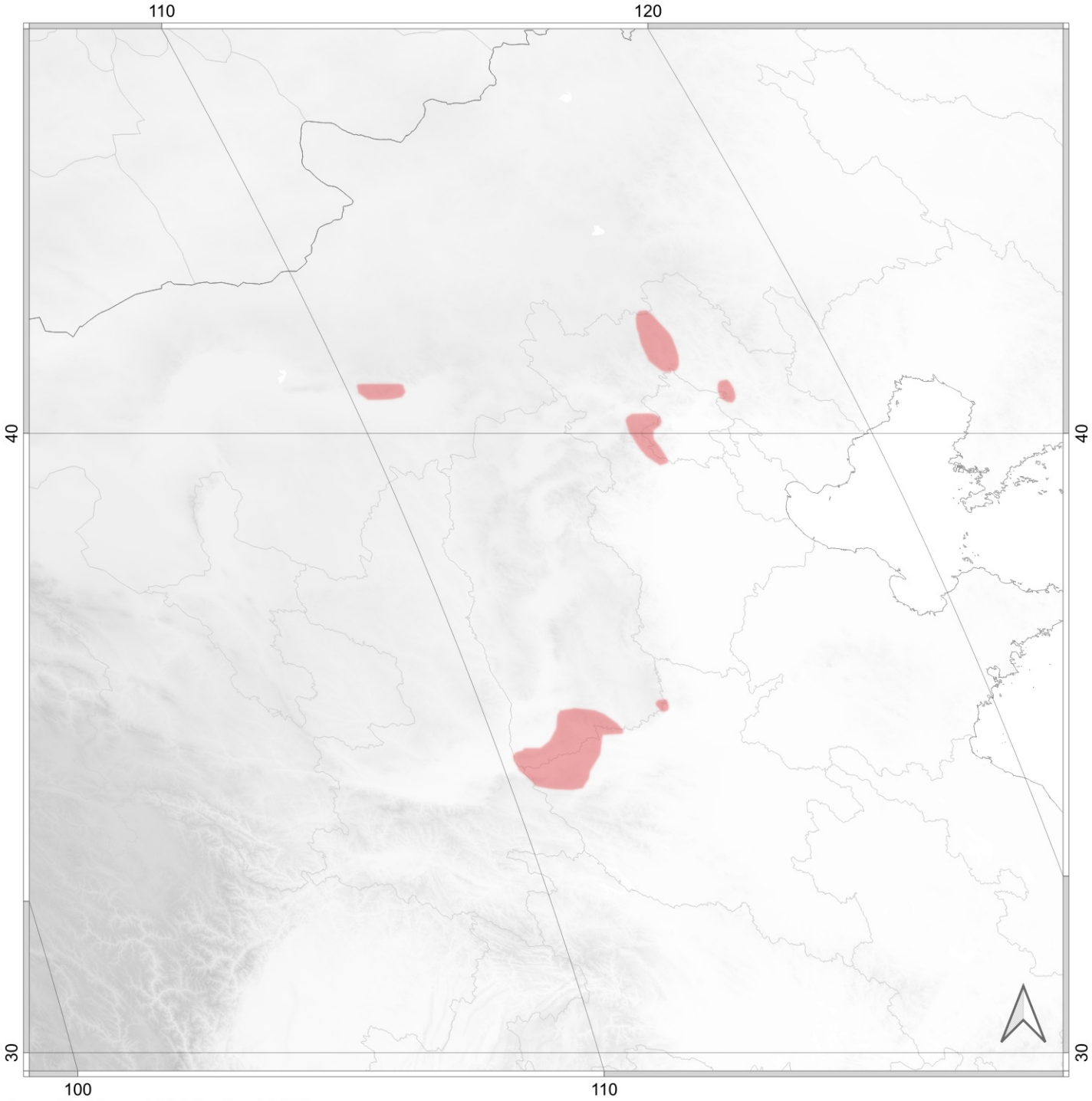
Z.Wang & S.L.Chang

Acta Phytotax. Sin. 17(1): 47 (1979)

IUCN Red list status : ne
*
habitat-ecology : mountain ravines
*
climate - Köppen classification : Dwa, Dwb, BSk
*
indicative altitudinal range : 500 - 1500 m
*
min. latitude : 34.2, max. latitude : 42,
min. longitude : 110.2, max. longitude : 117.7

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus lanceifolia

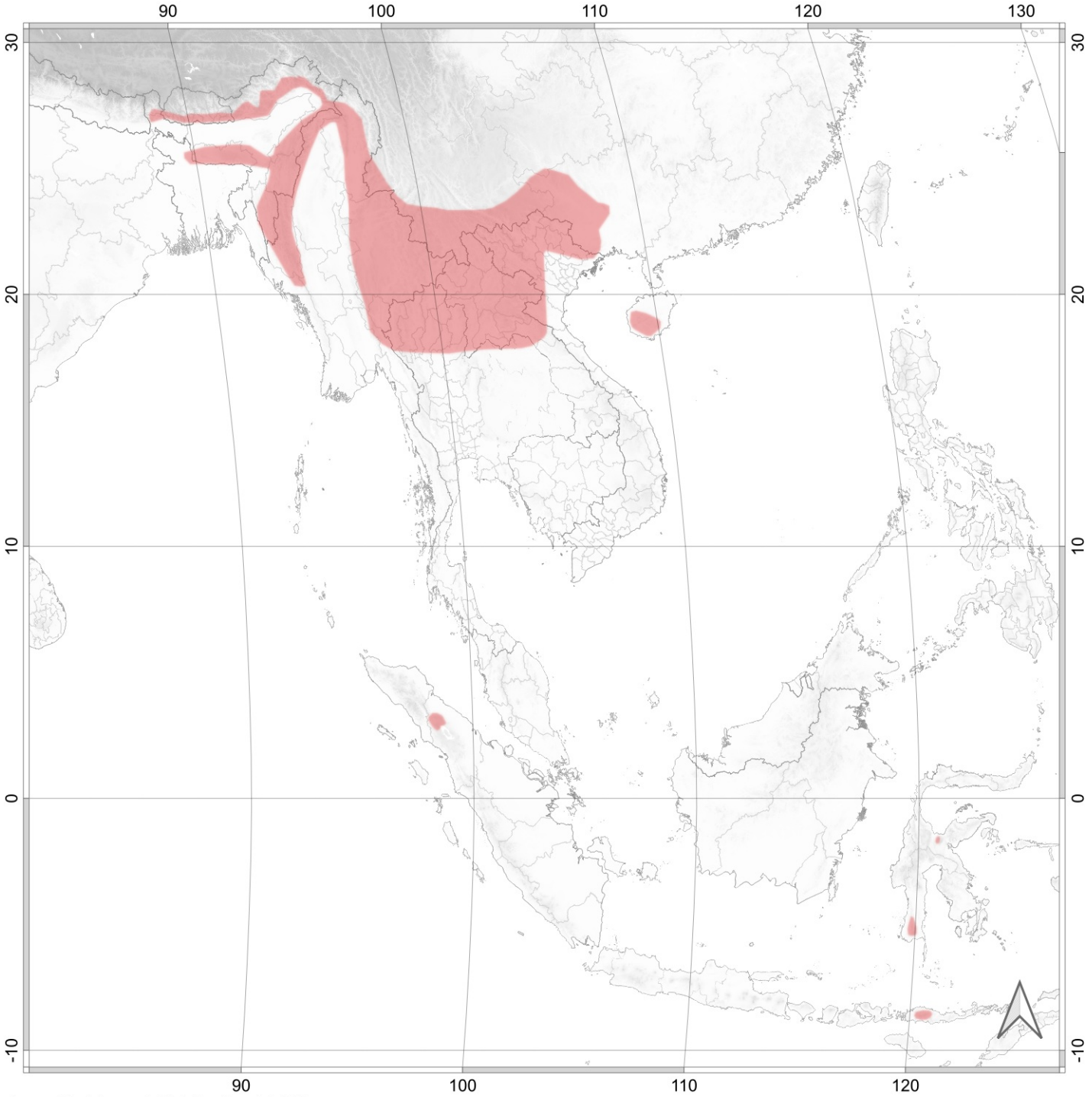
ULMACEAE

Roxb. ex Wall.

Pl. Asiat. Rar. 2: 86, pl. 200 (1831)

IUCN Red list status : ne
*
habitat-ecology : no information
*
climate - Köppen classification : Cwa, Cwb, Aw, (Cfb), (Af), (Am)
*
indicative altitudinal range : 100 - 2000 m
*
min. latitude : -8.8, max. latitude : 28.7,
min. longitude : 88.2, max. longitude : 121





Source of the data : see details in Fragnière et al., 2021

Ulmus macrocarpa

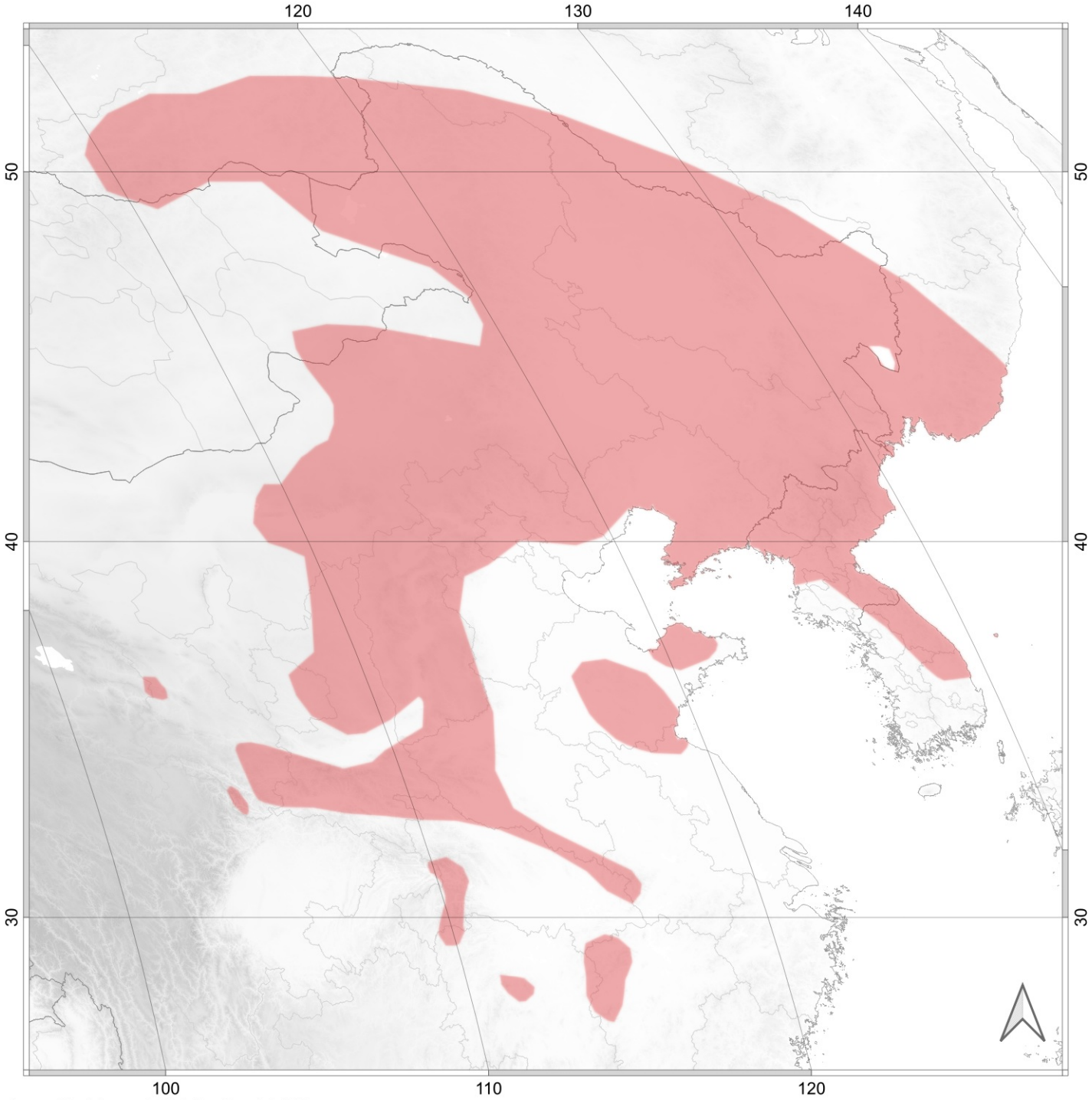
Hance

J. Bot. 6: 332 (1868)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : mixed forests, slopes, valleys
*
climate - Köppen classification : Dwa, Dwb, Dwc, BSk, (Cfa), (Cwa)
*
indicative altitudinal range : 0 - 1800 m
*
min. latitude : 27.2, max. latitude : 52.6,
min. longitude : 102.7, max. longitude : 136.3





Source of the data : see details in Fragnière et al., 2021

Ulmus mexicana

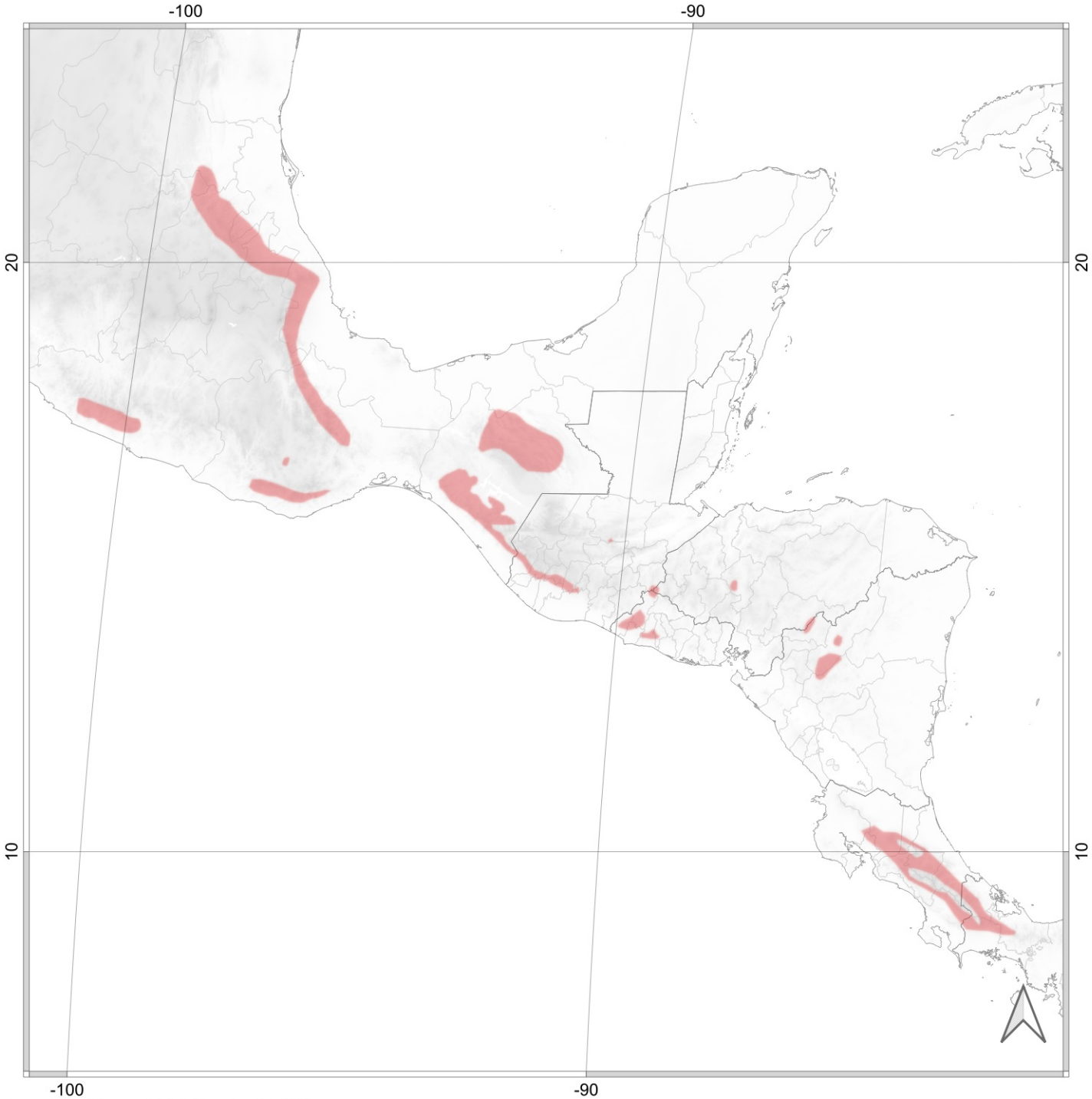
Planch.

Prodr. [A. P. de Candolle] 17: 156 (1873)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : wet forests and very wet mountains, volvanic, calcareous, and metamorphic soils
*
climate - Köppen classification : Aw, Am, Af, Cwb, Cfb, Cfa, Cwa
*
indicative altitudinal range : 800 - 2200 m
*
min. latitude : 8.6, max. latitude : 21.7,
min. longitude : -101, max. longitude : -81.8





Source of the data : see details in Fragnière et al., 2021

Ulmus mianzhuensis

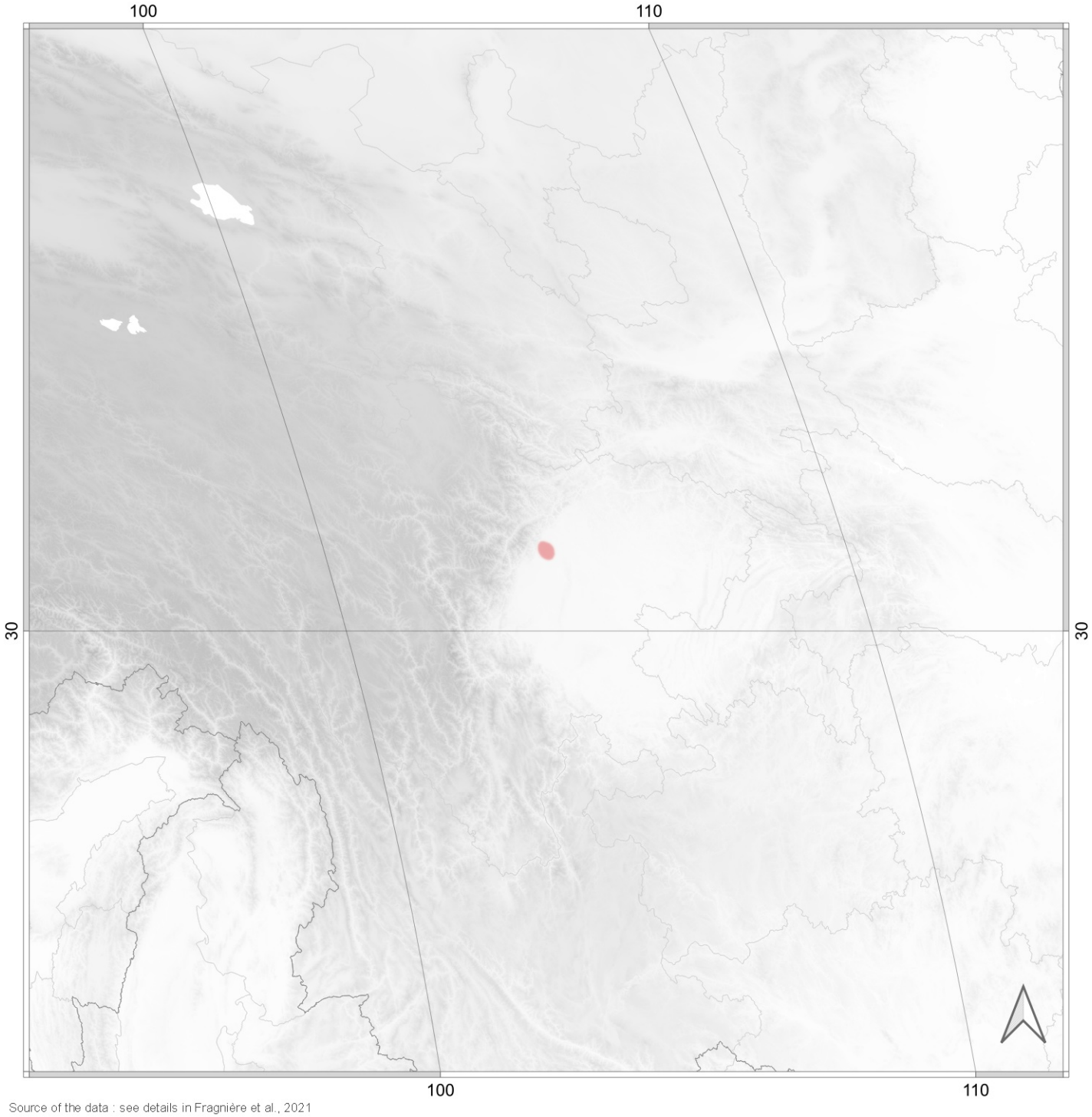
T.P. Yi & Lin Yang

Bull. Bot. Res., Harbin 26(6): 642–643 (2006)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : no information
*
climate - Köppen classification : Cwa
*
indicative altitudinal range : 500 - 700 m
*
min. latitude : 31.2, max. latitude : 31.5,
min. longitude : 104.1, max. longitude : 104.4





Source of the data : see details in Fragnière et al., 2021

Ulmus microcarpa

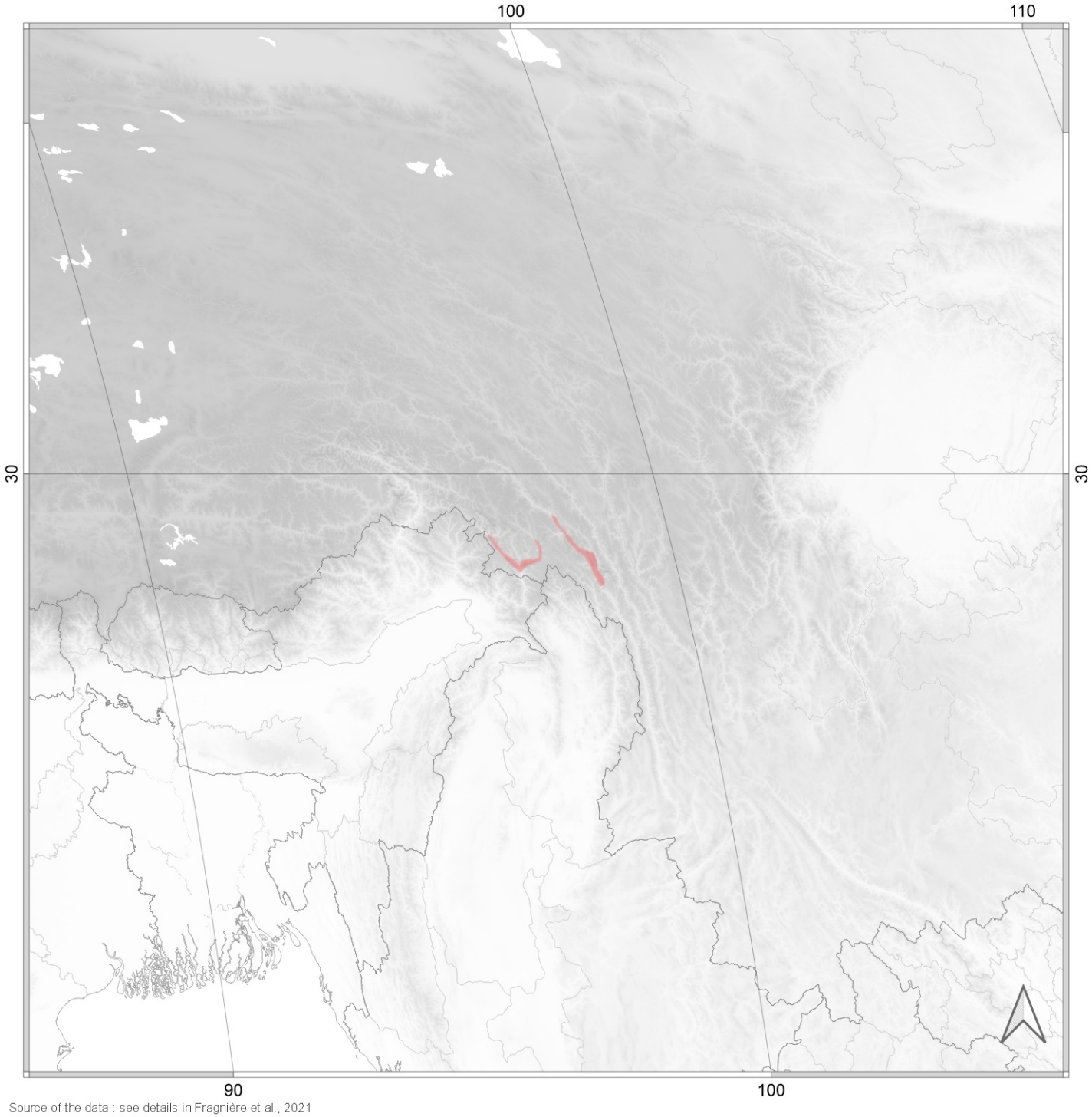
ULMACEAE

L.K. Fu

Acta Phytotax. Sin. 17(1): 48–49, pl. 2, f. 5–8 (1979)

IUCN Red list status : ne
*
habitat-ecology : broad-leaved forests
*
climate - Köppen classification : Dwb, Cwb
*
indicative altitudinal range : 2700 - 2900 m
*
min. latitude : 28.2, max. latitude : 29.3,
min. longitude : 96.6, max. longitude : 98.6





Source of the data : see details in Fragnière et al., 2021

Ulmus minor

Mill.

Gard. Dict., ed. 8. n. 6 (1768)

ULMACEAE

IUCN Red list status : DD
*
habitat-ecology : riparian habitats, pioneer species, characterised by being light-demanding, tolerate drought
*
climate - Köppen classification : Cfb, Dfb, BSk, Dfa, Cfa, Csa, (Csb), (Dfc)
*
indicative altitudinal range : 0 - 1300 m
*
min. latitude : 30, max. latitude : 58,
min. longitude : -9.5, max. longitude : 70.5



includes U. densa (synonym)



Source of the data : see details in Fragnière et al., 2021

Ulmus parvifolia

ULMACEAE

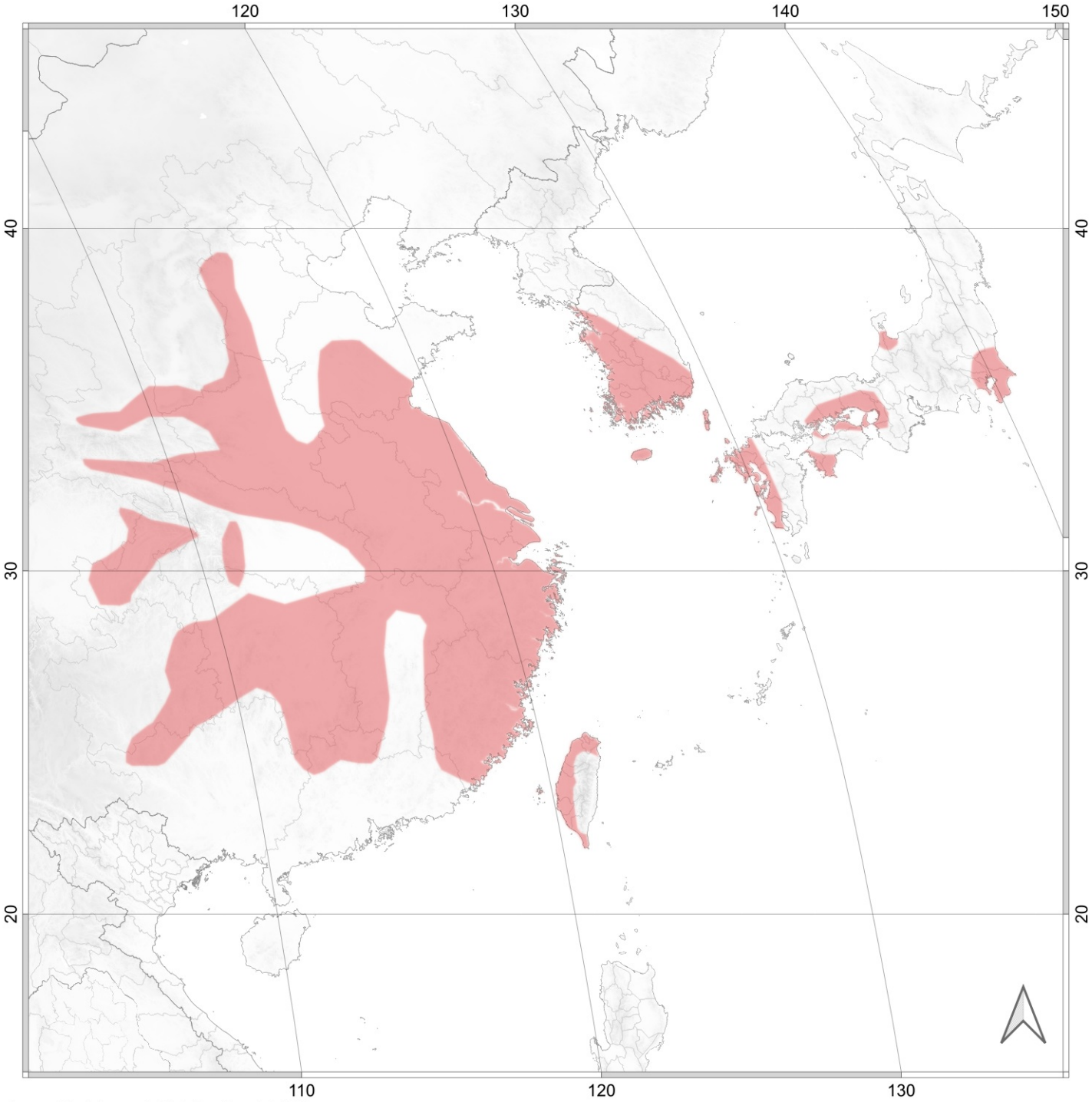
Jacq.

Pl. Rar. Hort. Schoenbr. 3: 6, t. 262 (1798)

IUCN Red list status : LC
*
habitat-ecology : drought tolerant, but tolerate moist sites
*
climate - Köppen classification : Cfa, Cwa, Dwa
*
indicative altitudinal range : 0 - 800 m
*
min. latitude : 21.9, max. latitude : 39.3,
min. longitude : 105.8, max. longitude : 140.9

widely planted, natural distribution difficult to know





Source of the data : see details in Fragnière et al., 2021

Ulmus prunifolia

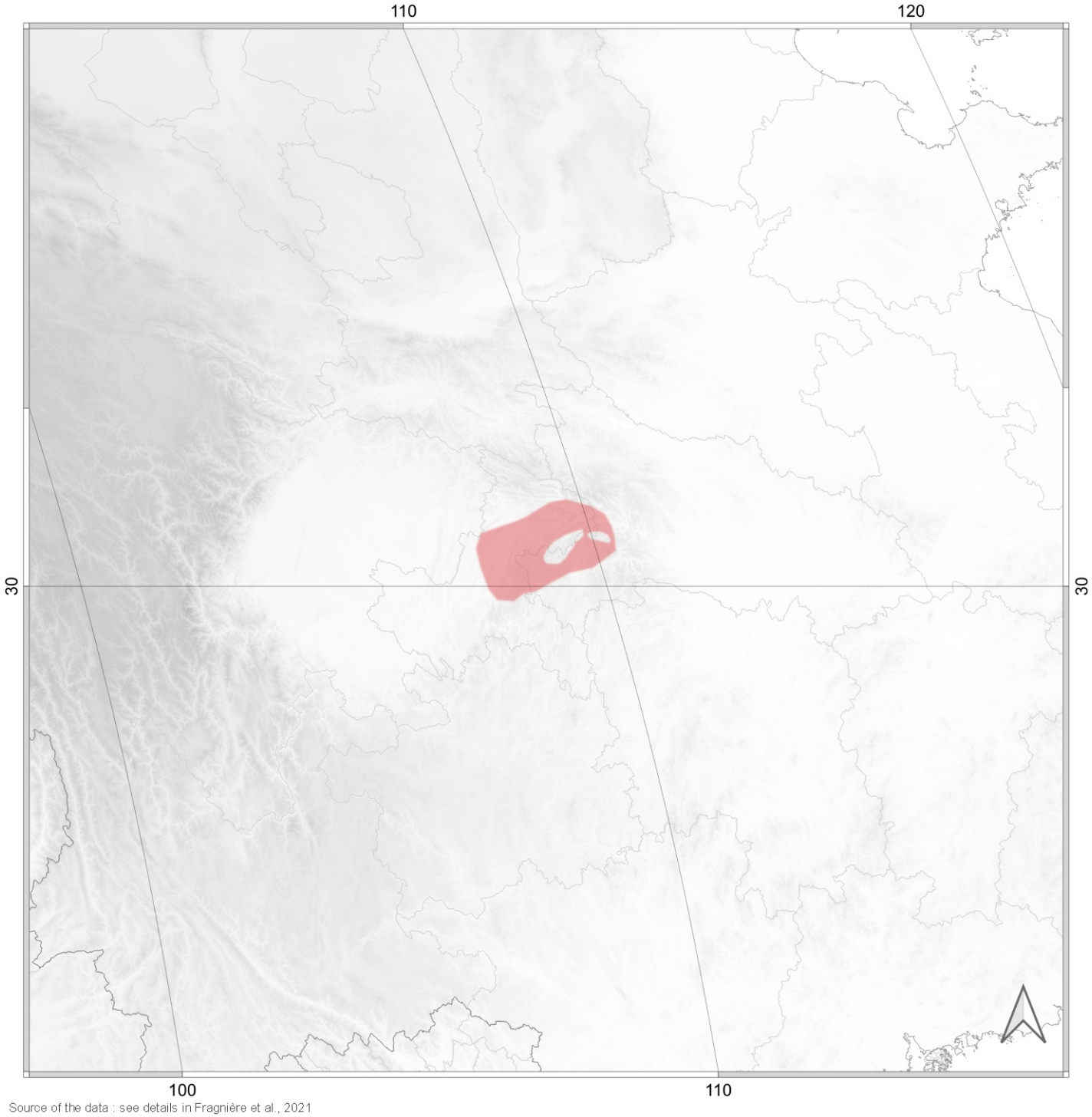
ULMACEAE

W.C.Cheng & L.K.Fu

Acta Phytotax. Sin. 17(1): 48 (1979)

IUCN Red list status : ne
*
habitat-ecology : no information
*
climate - Köppen classification : Cfa, Cwa
*
indicative altitudinal range : 1000 - 1500 m
*
min. latitude : 29.8, max. latitude : 31.4,
min. longitude : 107.7, max. longitude : 110.4





Source of the data : see details in Fragnière et al., 2021

Ulmus pseudopropinqua

Wang & Li

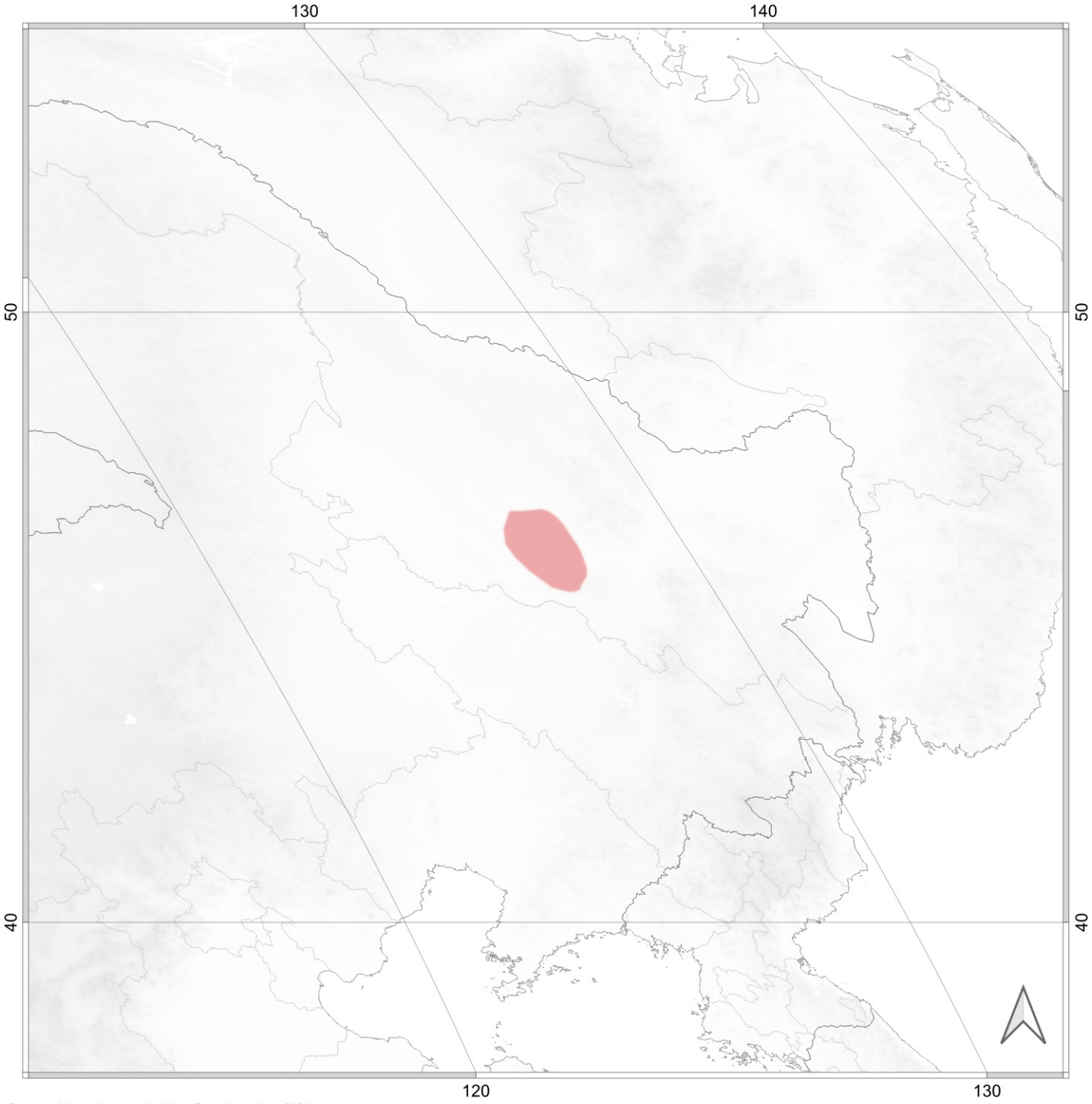
Ill. Fl. Lign. Pl. N.-E. China 231, 561 (1955)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : no information
*
climate - Köppen classification : Dwa
*
indicative altitudinal range : 100 - 500 m
*
min. latitude : 45.4, max. latitude : 46.7,
min. longitude : 126.3, max. longitude : 127.8

poorly understood species should be reinvestigated. min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus pumila

L.

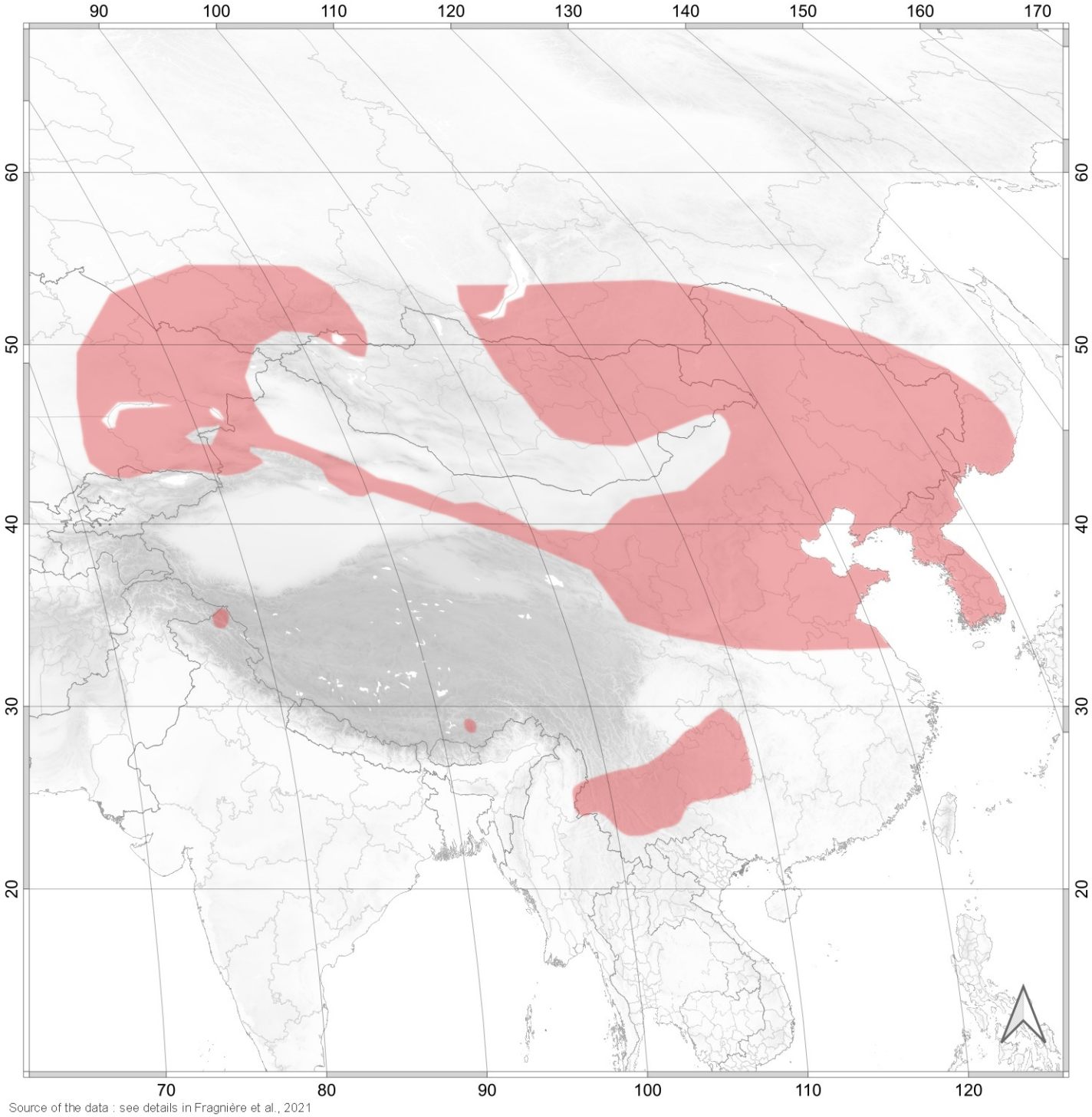
Sp. Pl. 1: 226 (1753)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : extremely cold resistant, very tolerant to drought, light demanding
*
climate - Köppen classification : BSk, Dwa, Dwb, Dwc, BWk, Cwa, Cwb, Cfa, (Dfc)
*
indicative altitudinal range : 0 - 2500 m
*
min. latitude : 22.9, max. latitude : 54.6,
min. longitude : 71.7, max. longitude : 136.6



widely planted, natural distribution difficult to know



Source of the data : see details in Fragnière et al., 2021

Ulmus rubra

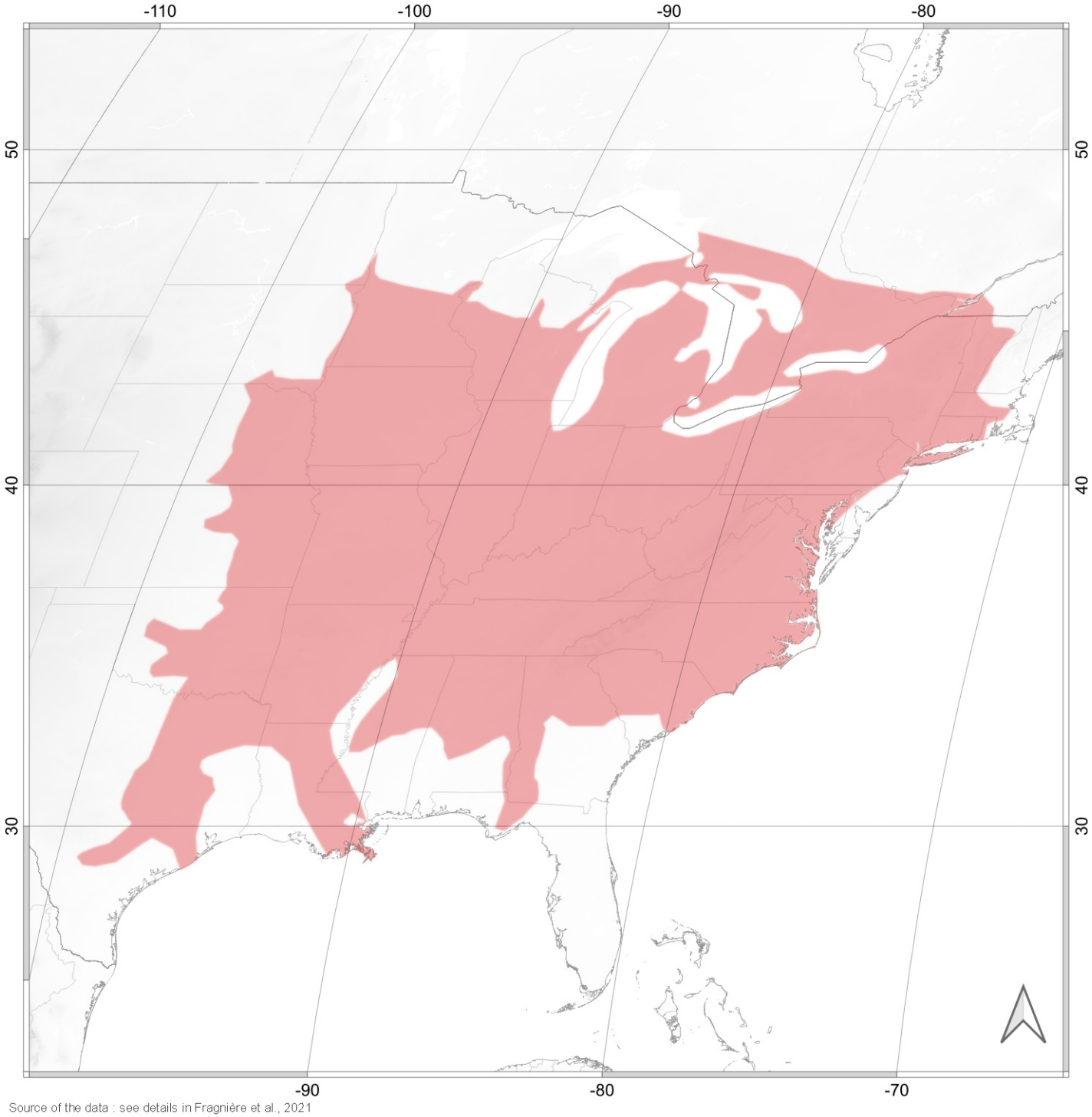
Muhl.

Trans. Amer. Philos. Soc. 3: 165 (1793)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : lower slopes, alluvial flood plains, stream banks, riverbanks, and wooded bottom lands
*
climate - Köppen classification : Cfa, Dfa, (Dfb)
*
indicative altitudinal range : 0 - 900 m
*
min. latitude : 28.7, max. latitude : 47.5,
min. longitude : -99.3, max. longitude : -71





Source of the data : see details in Fragnière et al., 2021

Ulmus serotina

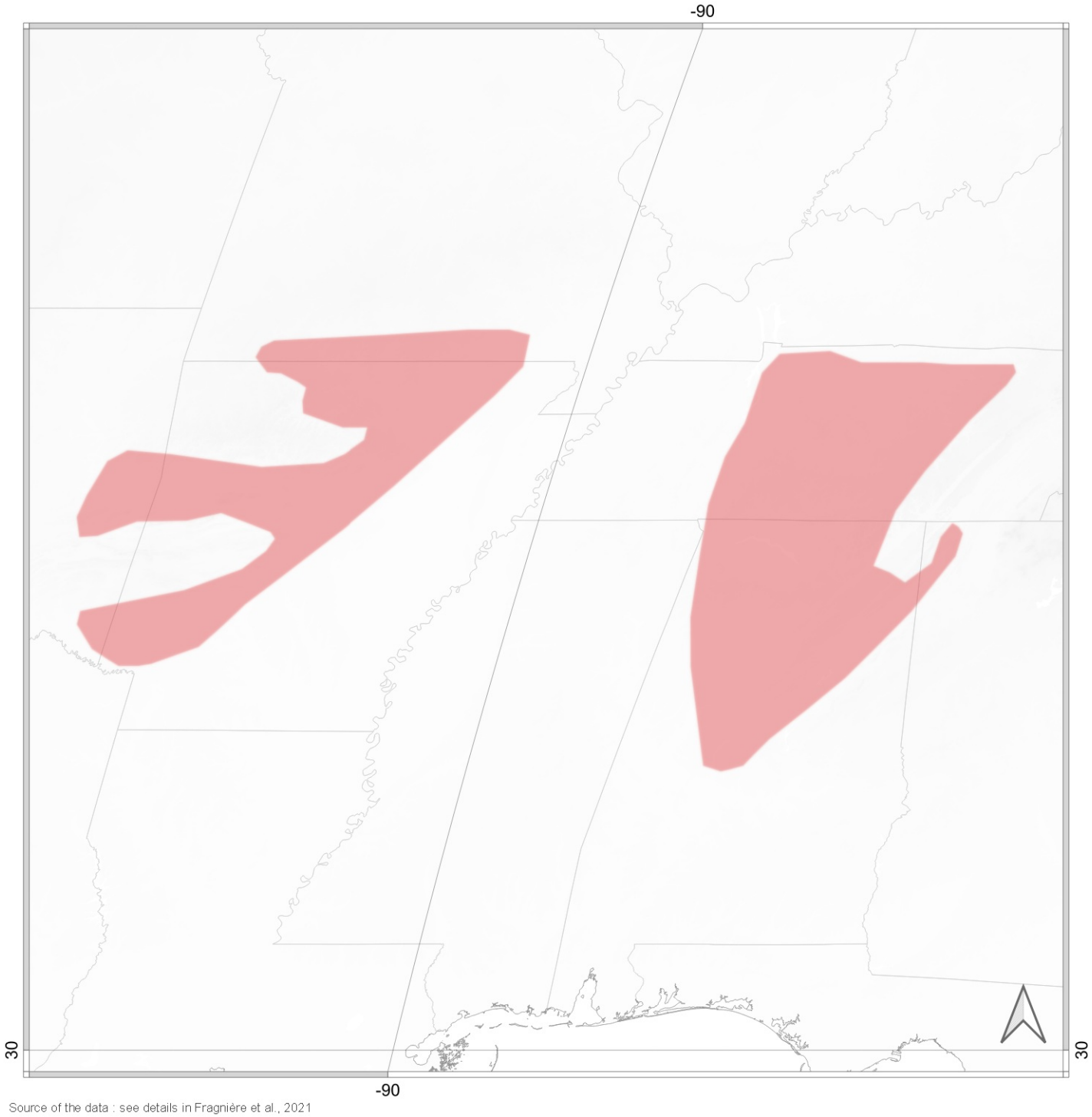
Sarg.

Bot. Gaz. 27: 92 (1899)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : limestone bluffs, stream sides, rich woods
*
climate - Köppen classification : Cfa
*
indicative altitudinal range : 0 - 400 m
*
min. latitude : 32.6, max. latitude : 36.8,
min. longitude : -95.3, max. longitude : -85.1





Source of the data : see details in Fragnière et al., 2021

Ulmus szechuanica

W.P. Fang

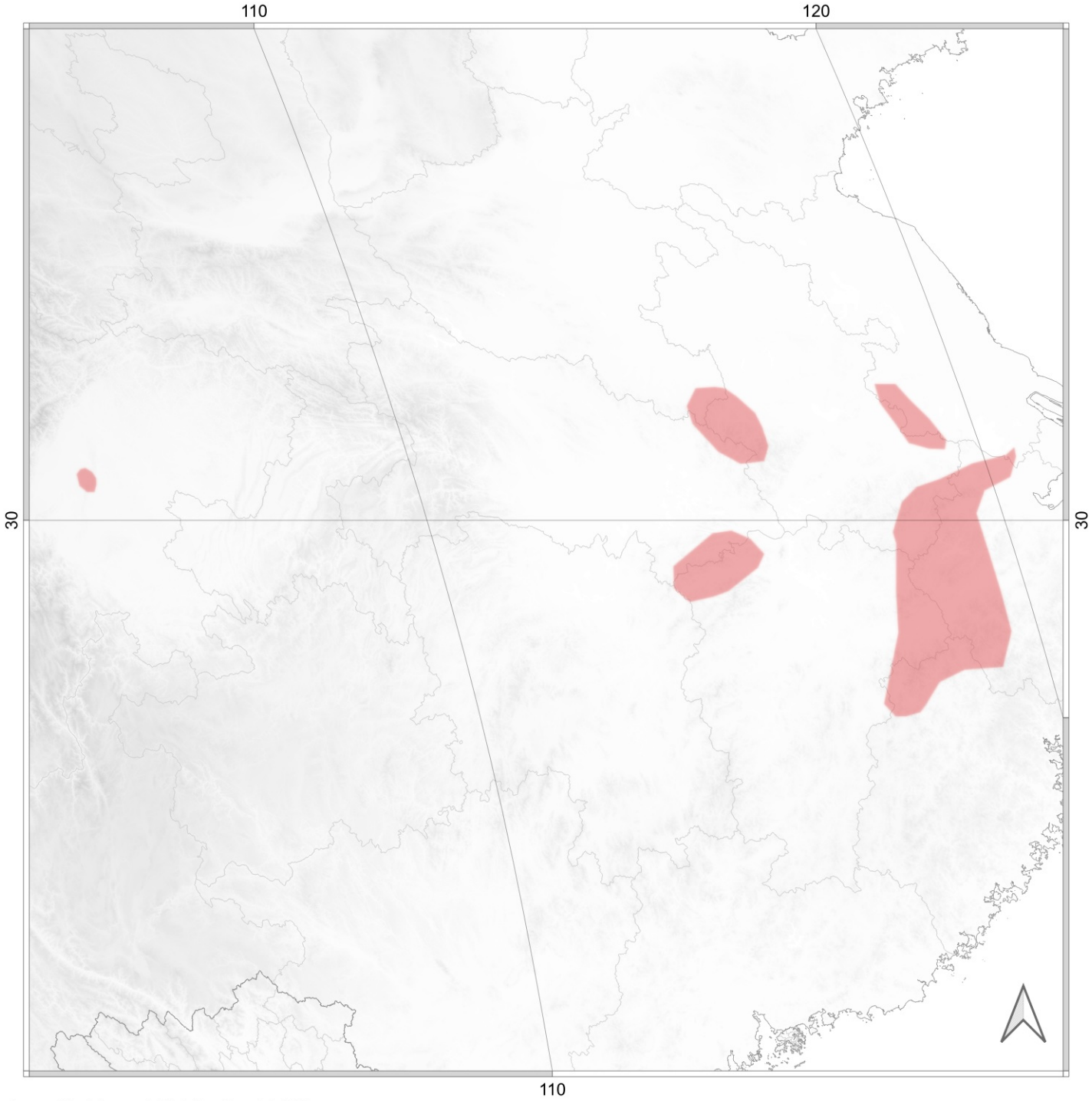
Commem. Vol. 22 (1947)

ULMACEAE

IUCN Red list status : LC
*
habitat-ecology : no information
*
climate - Köppen classification : Cfa, (Cwa)
*
indicative altitudinal range : 0 - 1100 m
*
min. latitude : 27.1, max. latitude : 32,
min. longitude : 104.1, max. longitude : 120.6

min+ max elevation estimated from distribution





Source of the data : see details in Fragnière et al., 2021

Ulmus thomasii

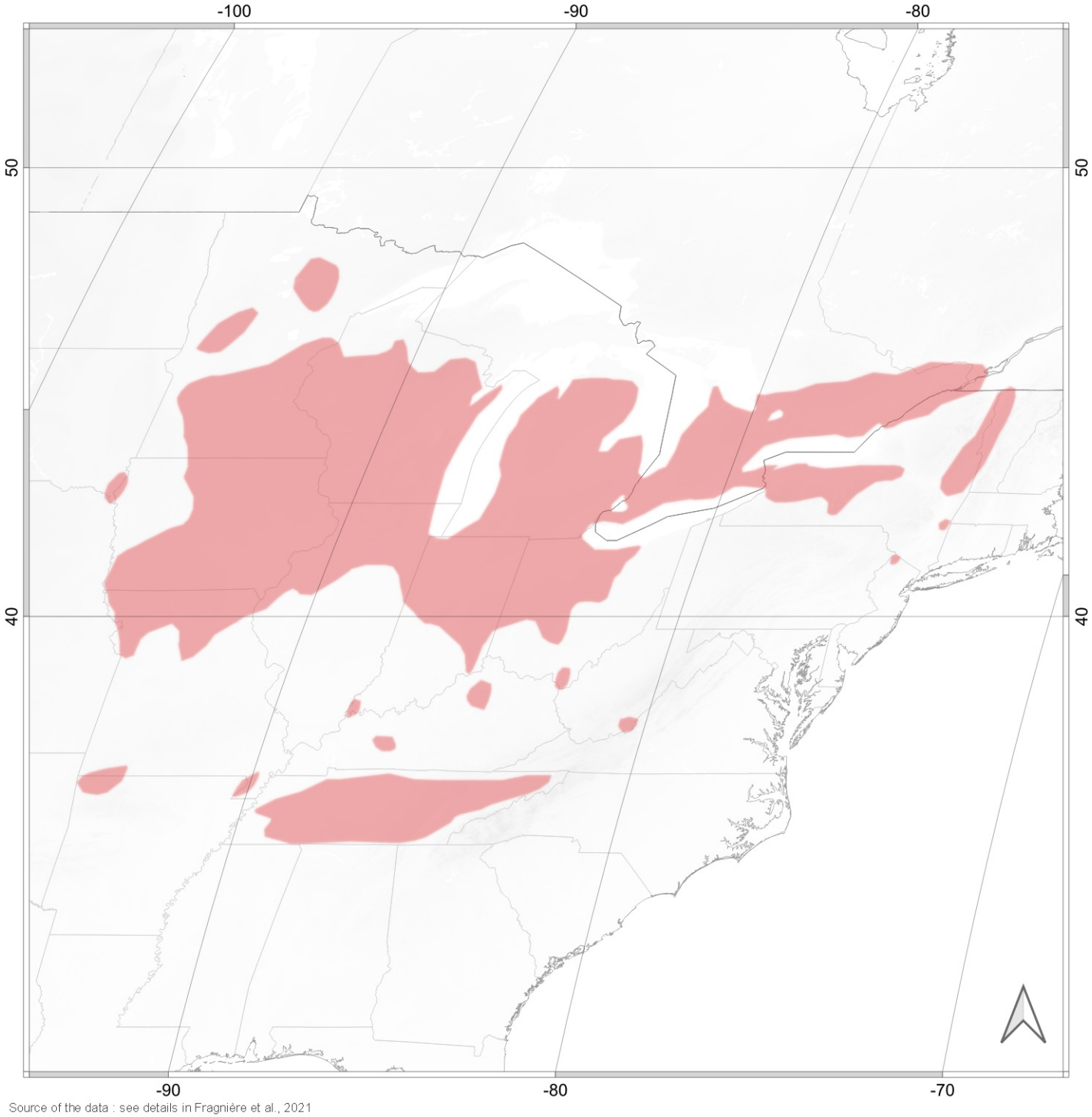
ULMACEAE

Sarg.

Silva (Sargent) 14: 102 (1902)

IUCN Red list status : LC
*
habitat-ecology : rocky slopes, limestone outcrops, rich woods, flood plains, stream banks
*
climate - Köppen classification : Dfa, Dfb, Cfa
*
indicative altitudinal range : 30 - 900 m
*
min. latitude : 35, max. latitude : 48,
min. longitude : -96.9, max. longitude : -72.9





Source of the data : see details in Fragnière et al., 2021

Ulmus uyematsui

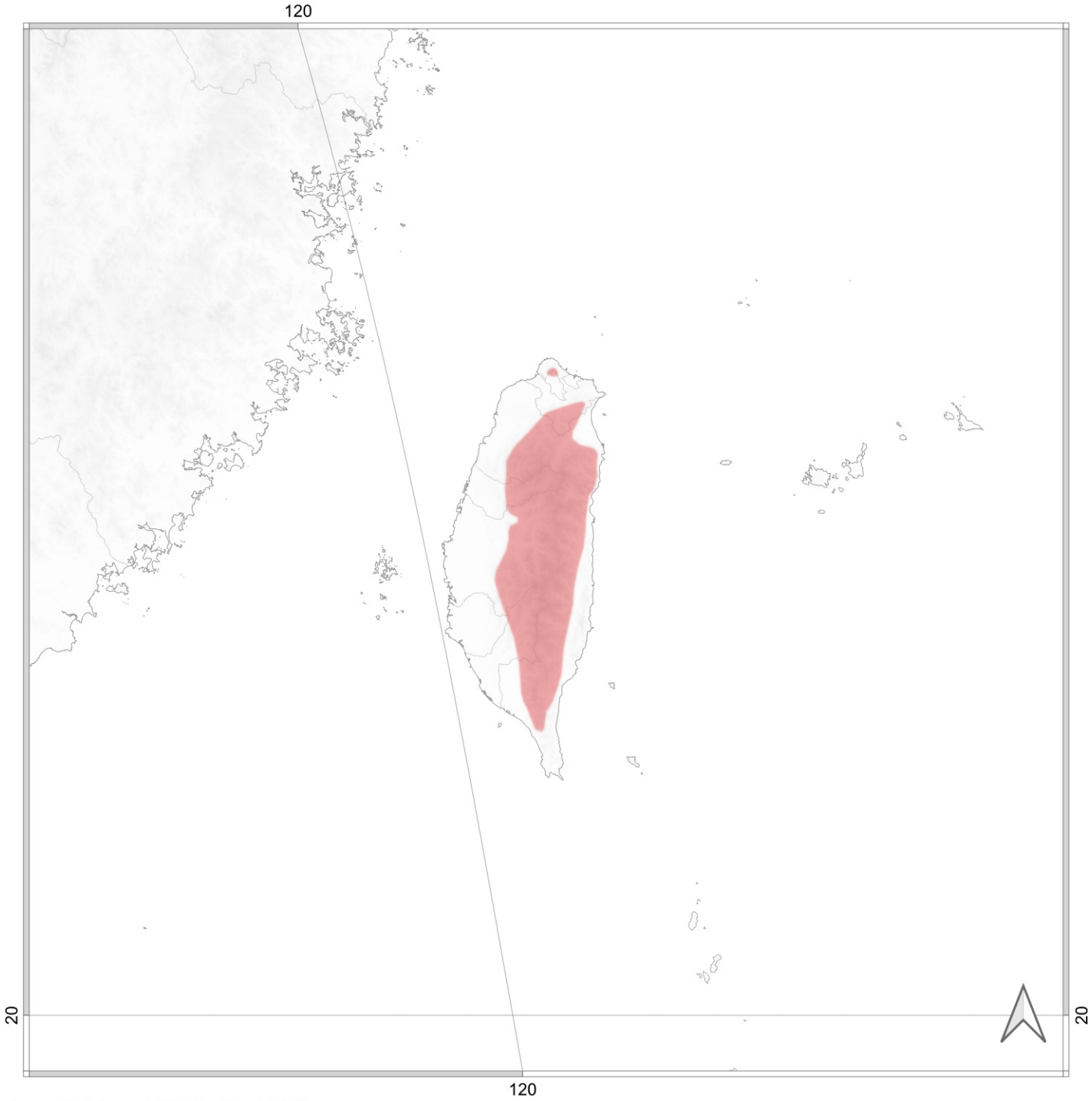
Hayata

Icon. Pl. Formosan. 3: 174 (1913)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : forests in mountains
*
climate - Köppen classification : Cfb, Cwb, (Cfa), (Cwa)
*
indicative altitudinal range : 800 - 2500 m
*
min. latitude : 22.3, max. latitude : 25.2,
min. longitude : 120.6, max. longitude : 121.8





Source of the data : see details in Fragnière et al., 2021

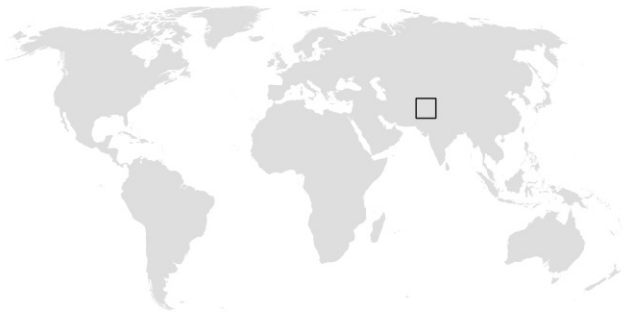
Ulmus villosa

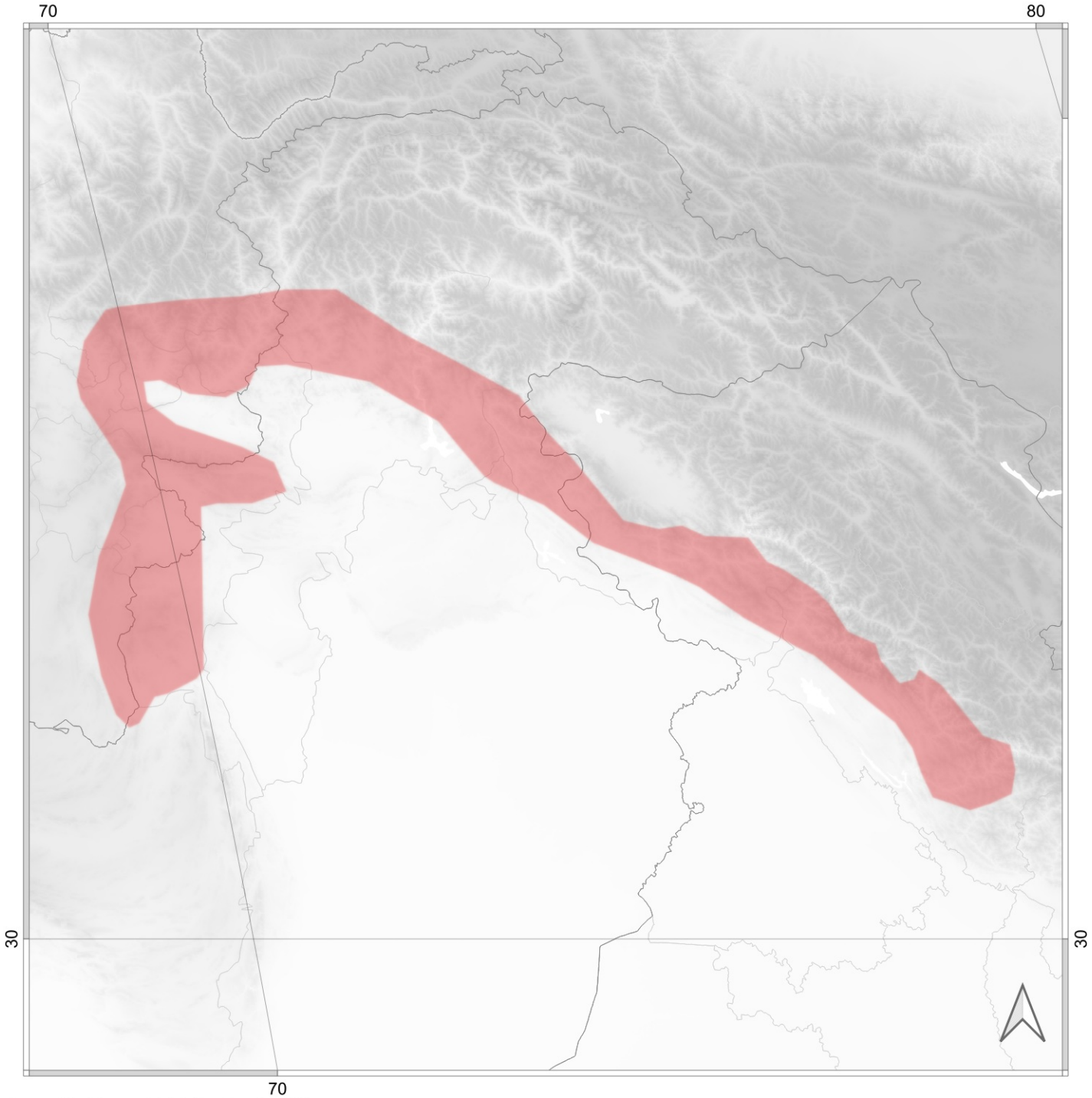
Brandis ex Gamble

Man. Ind. Timb. (ed. 2). 628 (1902)

ULMACEAE

IUCN Red list status : ne
*
habitat-ecology : no information
*
climate - Köppen classification : Cwa, Cwb, Cfa, Csa, BSk, Dfb, Dsb
*
indicative altitudinal range : 1200 - 2700 m
*
min. latitude : 31.1, max. latitude : 35.4,
min. longitude : 69, max. longitude : 77.9





Source of the data : see details in Fragnière et al., 2021

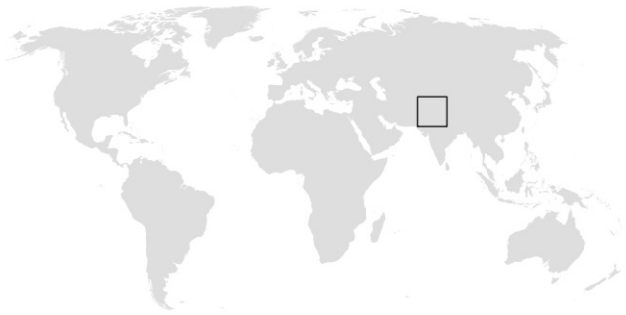
Ulmus wallichiana

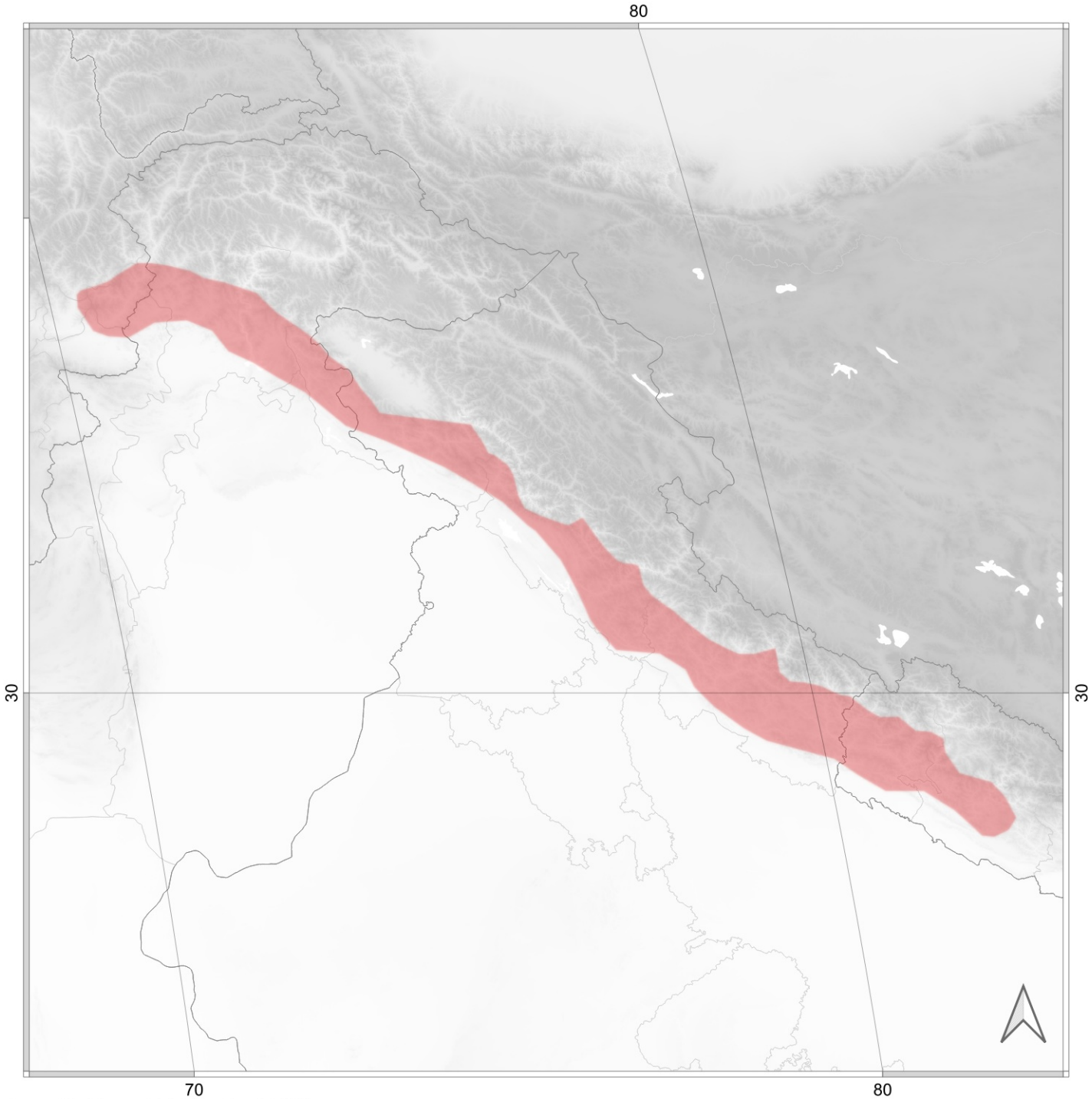
ULMACEAE

Planch.

Ann. Sci. Nat., Bot. sér. 3, 10: 277 (1848)

IUCN Red list status : VU
*
habitat-ecology : moist ravines
*
climate - Köppen classification : Cwa, Cwb, Csa, Cfa, Dfb, (Dsb)
*
indicative altitudinal range : 800 - 3000 m
*
min. latitude : 28.2, max. latitude : 35.4,
min. longitude : 70.4, max. longitude : 82.6





Source of the data : see details in Fragnière et al., 2021

Zelkova abelicea

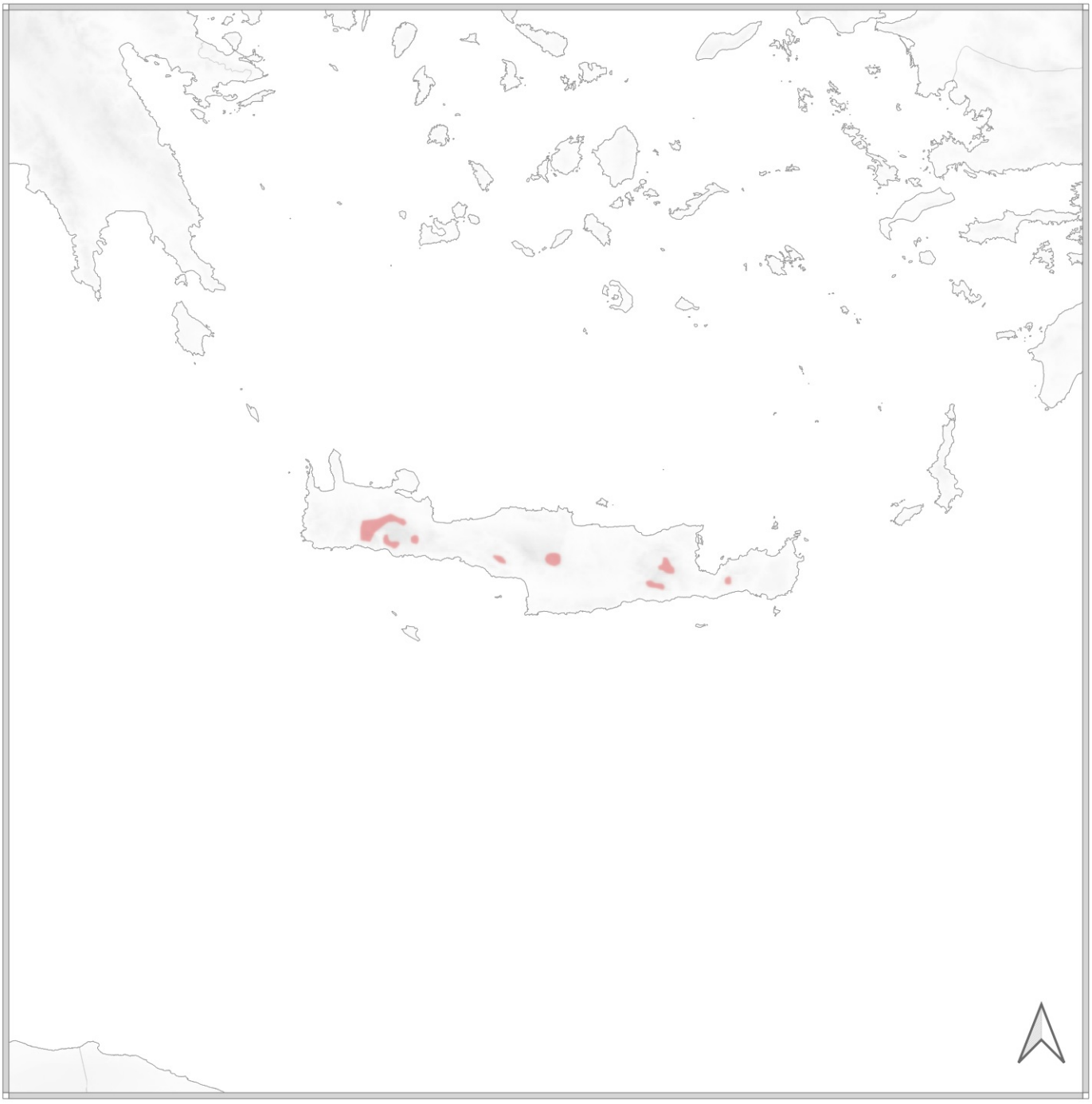
ULMACEAE

(Lam.) Boiss.

Fl. Orient. [Boissier] 4(2): 1159 (1879)

IUCN Red list status : EN
*
habitat-ecology : rocky areas (inland cliffs, mountain peaks), shrublands, forests
*
climate - Köppen classification : Csb
*
indicative altitudinal range : 900 - 1800 m
*
min. latitude : 35, max. latitude : 35.4,
min. longitude : 23.8, max. longitude : 25.9





Source of the data : see details in Fragnière et al., 2021

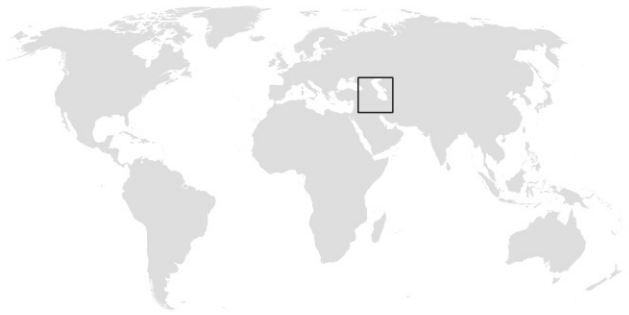
Zelkova carpinifolia

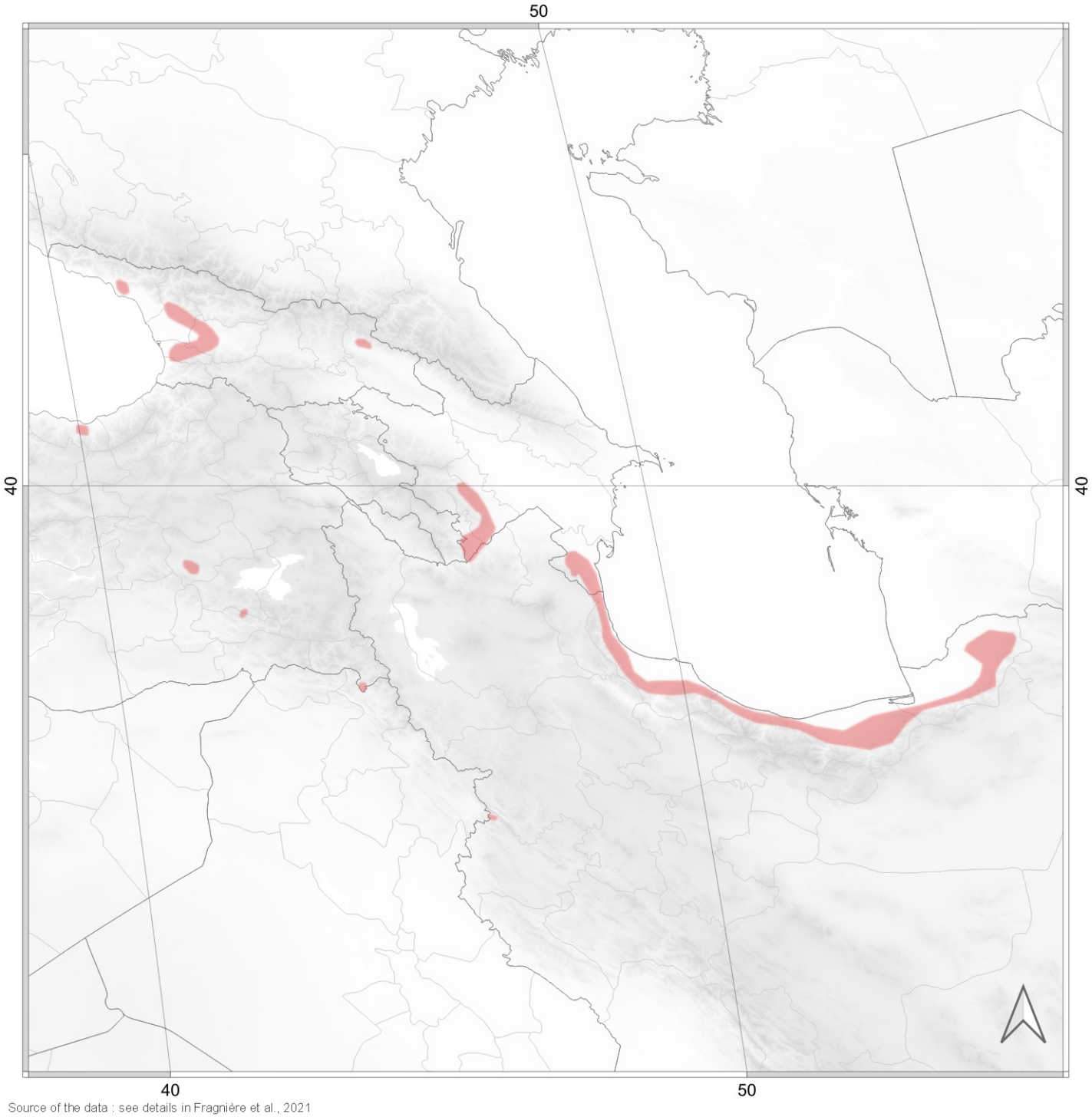
(Pall.) K. Koch

Linnaea 22: 598 (1849)

ULMACEAE

IUCN Red list status : VU
*
habitat-ecology : moist, humus-rich soils but not tolerating waterlogged or swampy conditions
*
climate - Köppen classification : Csa, BSk, Cfa, Cfb, (Dfa)
*
indicative altitudinal range : 100 - 1500 m
*
min. latitude : 35.1, max. latitude : 43,
min. longitude : 39.9, max. longitude : 56.1





Source of the data : see details in Fragnière et al., 2021

Zelkova schneideriana

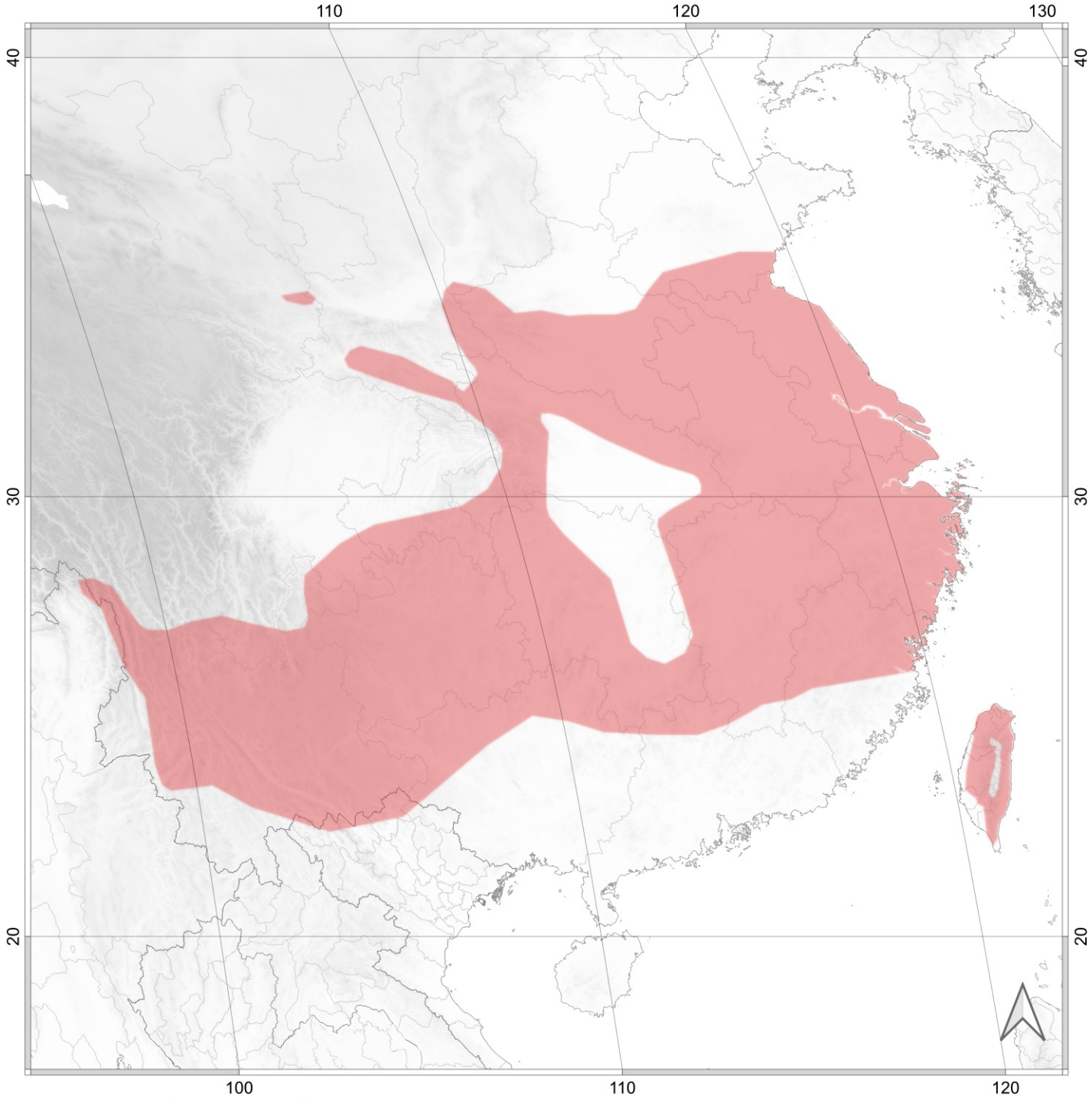
Hand.-Mazz.

Symb. Sin. Pt. 7, 104 (1929)

ULMACEAE

IUCN Red list status : VU
*
habitat-ecology : in ravines along streams and rivers, fertile soils
*
climate - Köppen classification : Cwa, Cfa, Cwb, (Dwa)
*
indicative altitudinal range : 0 - 2800 m
*
min. latitude : 22, max. latitude : 35.6,
min. longitude : 97.9, max. longitude : 122.5





Source of the data : see details in Fragnière et al., 2021

Zelkova serrata

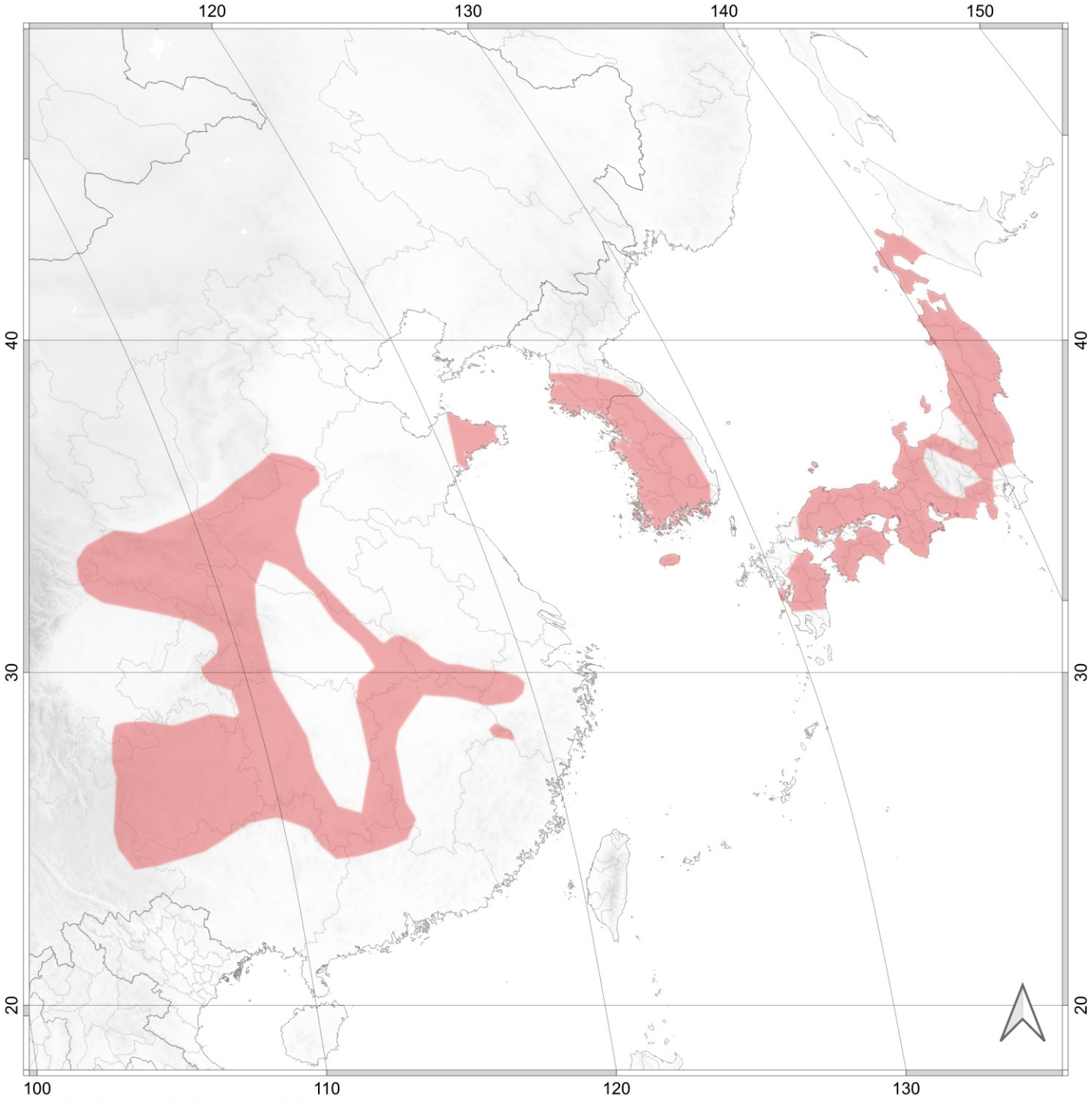
(Thunb.) Makino

Bot. Mag. (Tokyo) 17: 13 (1903)

ULMACEAE

IUCN Red list status : NT
*
habitat-ecology : lowland to mountain forests, riparian habitats, in ravines and on shady slopes
*
climate - Köppen classification : Cfa, Cwa, Dwa, Dfa, Dfb, (Dwb), (Cwb)
*
indicative altitudinal range : 0 - 2000 m
*
min. latitude : 24.1, max. latitude : 43.4,
min. longitude : 104, max. longitude : 142.1





Source of the data : see details in Fragnière et al., 2021

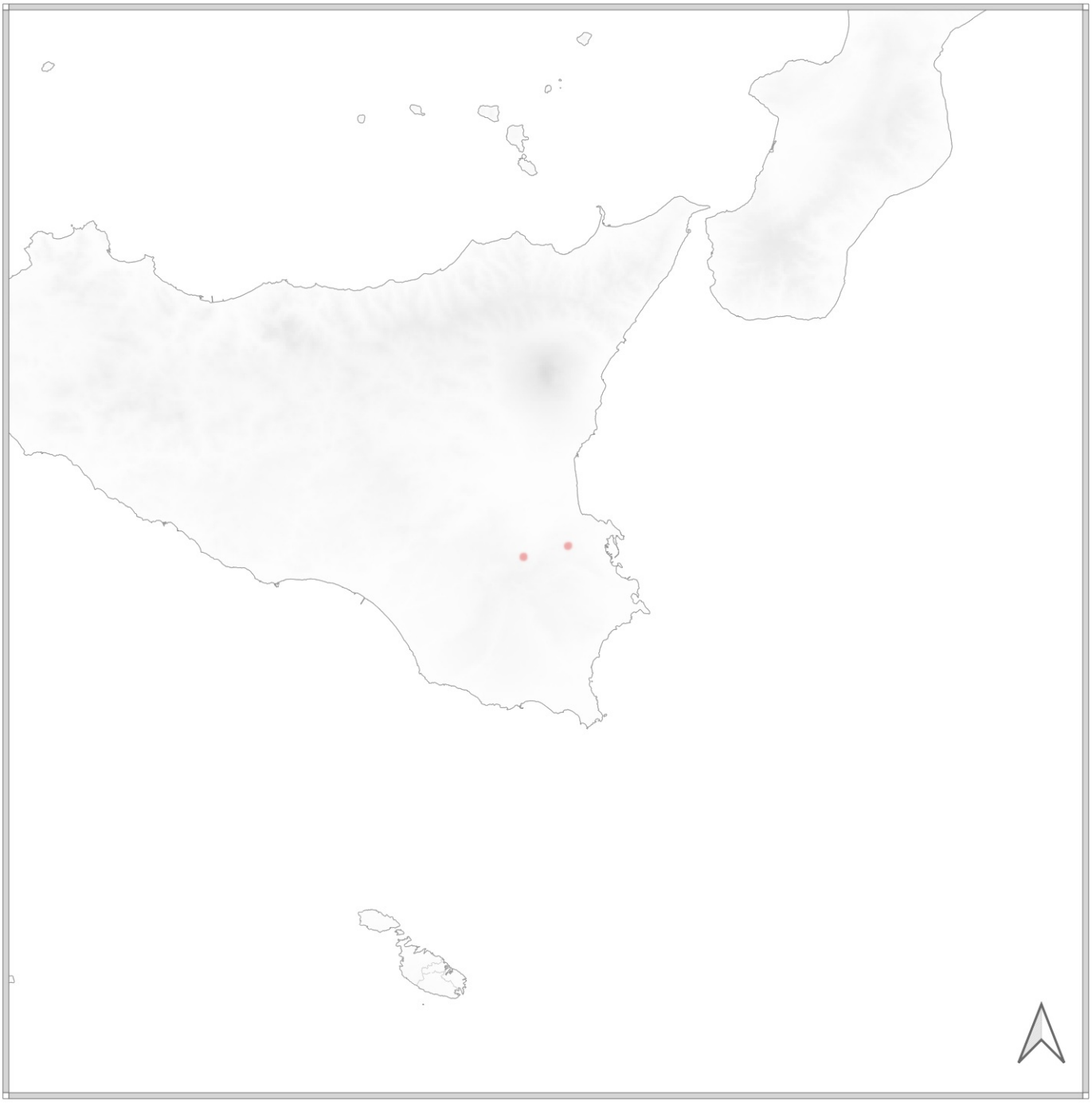
Zelkova sicula

ULMACEAE

Di Pasq., Garfi & Quézel

Biocosme Mésogéen 8(4)-9(1): 403, 406 (1992)

IUCN Red list status : CR
*
habitat-ecology : shrublands, wetlands
*
climate - Köppen classification : Csa
*
indicative altitudinal range : 320 - 530 m
*
min. latitude : 37.2, max. latitude : 37.2,
min. longitude : 14.9, max. longitude : 15.1



Source of the data : see details in Fragnière et al., 2021

Zelkova sinica

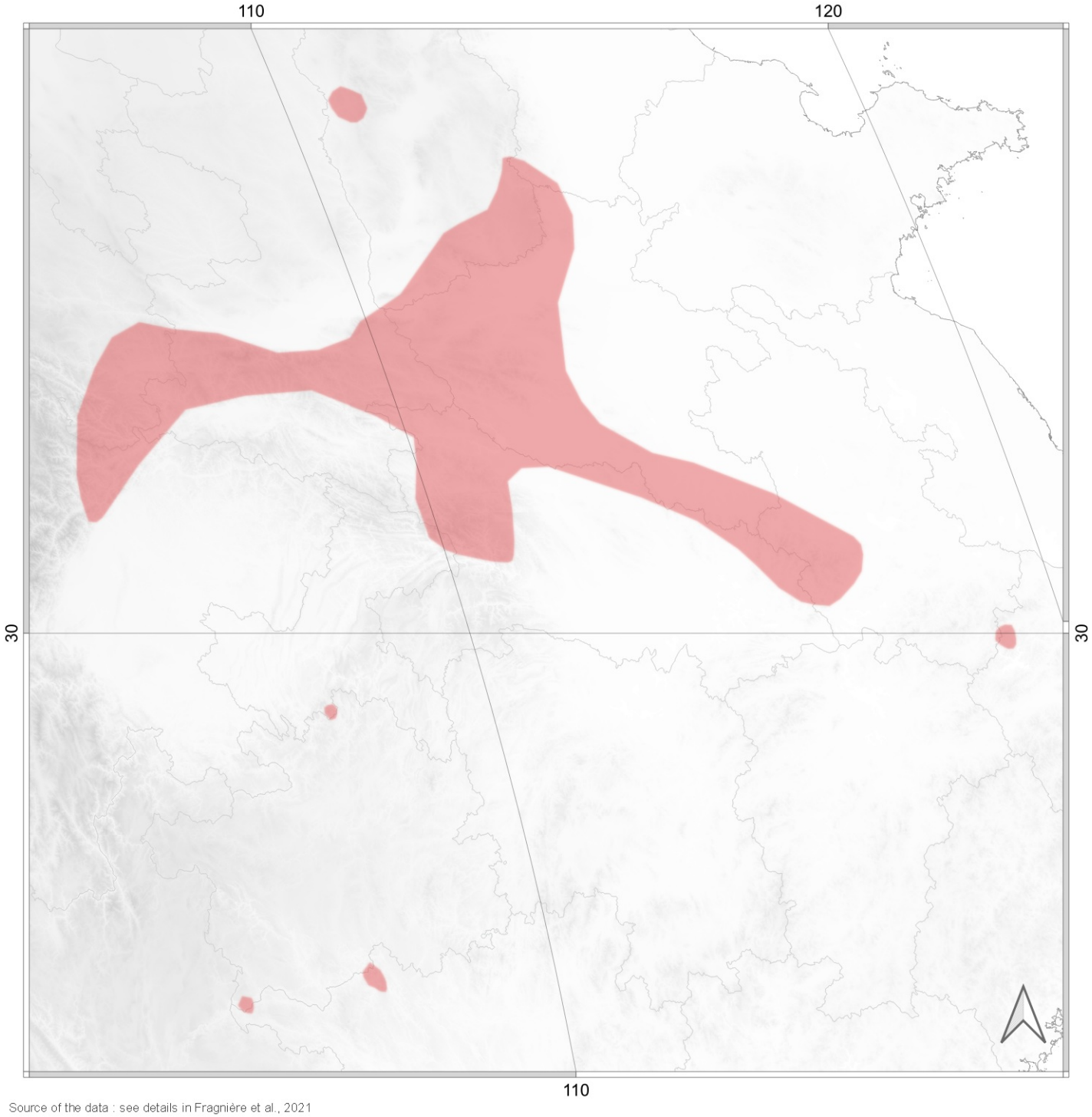
C.K.Schneid.

Pl. Wilson. (Sargent) 3(2): 286 (1916)

ULMACEAE

IUCN Red list status : VU
*
habitat-ecology : humid, subtropical deciduous forests, in valleys along rivers
*
climate - Köppen classification : Cwa, Cfa, Dwa, (Dwb)
*
indicative altitudinal range : 100 - 2500 m
*
min. latitude : 24.6, max. latitude : 37.8,
min. longitude : 104.1, max. longitude : 119.1





Source of the data : see details in Fragnière et al., 2021