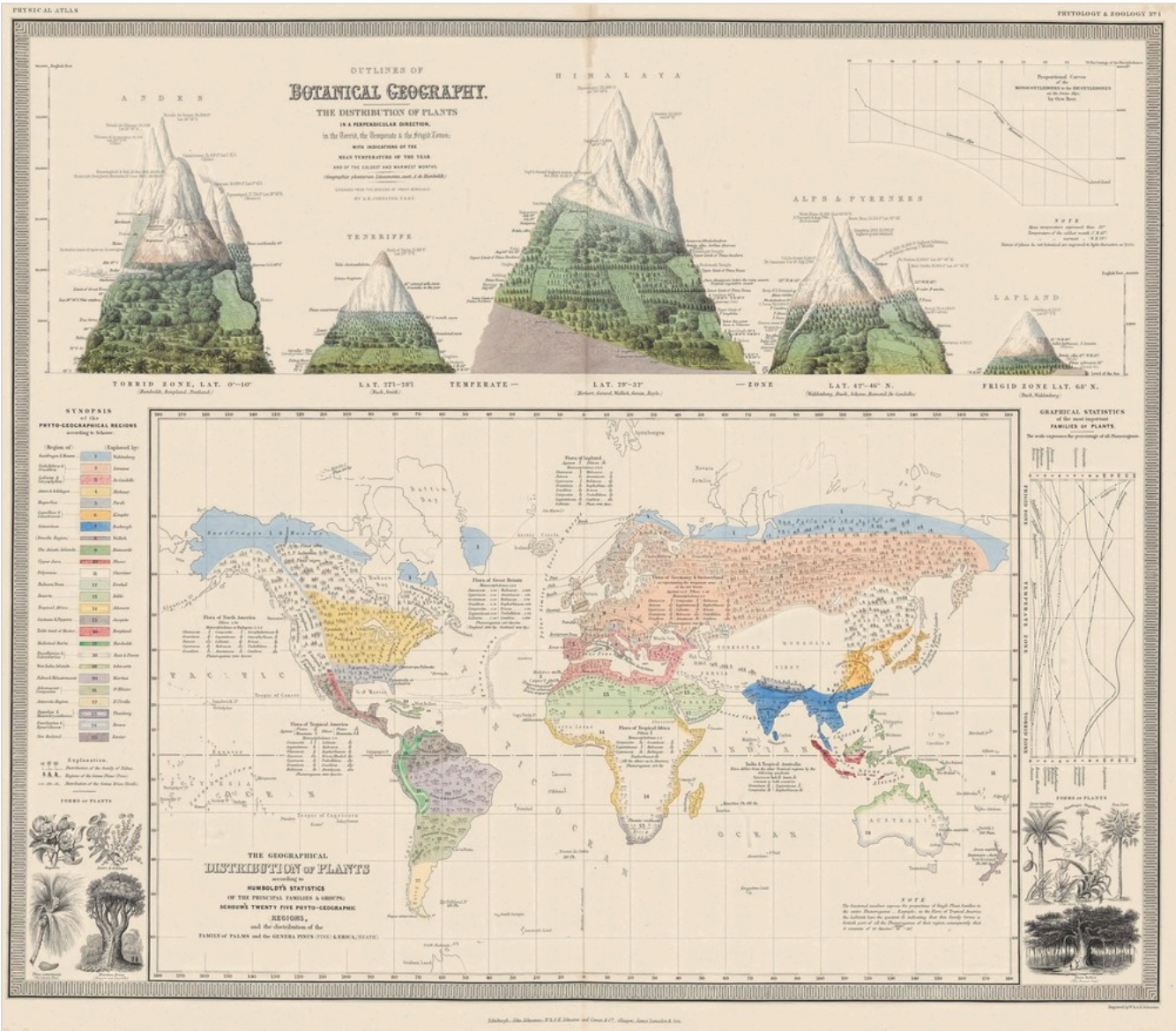


Outlines of Botanical Geography

OLD MAP STUDIO · RESTORATION PASSPORT



THE SHEET

Cartographer	Alexander Keith Johnston, after designs by Heinrich Berghaus (Wellcome record: Berghaus primary contributor, Johnston contributor)
Credits	A. K. Johnston, "extended from the designs of Profr Berghaus" (on the sheet); "Engraved by W. & A. K. Johnston" (on the sheet)
Imprint	On the sheet: "Edinburgh: John Johnstone, W. & A. K. Johnston and Gowan & Co. Glasgow: James Lumsden & Son." Atlas record (Wellcome): Edinburgh : J. Johnstone, 1845
Year	1845
Technique	engraving (on the sheet: "Engraved by W. & A. K. Johnston"), coloured (atlas record: colour maps; method not stated)
Source	Wellcome Collection, The physical atlas (Berghaus; Johnston), Edinburgh 1845, EPB/F/960, image L0077829

Notes	Sheet marked "Physical Atlas" and "Phytology & Zoology No 1". Upper part: vegetation profiles of the Andes, Teneriffe, Himalaya, Alps & Pyrenees and Lapland; lower part: world map of plant distribution with Schouw's 25 phyto-geographical regions. Wellcome record of the atlas: "Copy 1 Note: Specimen number. Pt. I only."
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WHAT WAS DONE

- Paper levelled and toned to the studio standard: level 231.79, warmth 34.0.
- Scanner edge removed: top 130, bottom 145, left 135, right 145 px. No mount board: the sheet was scanned on its own.
- The printed line deepened by a monotone tone curve; ink area changed by 1.06× — the lines are darker, not thicker.
- Owner marks: No library stamps or marks were removed inside the trimmed image. Loose dust and foxing spots were removed and the paper tone was evened out; the printed line was darkened slightly at the owner's request. Small paper losses at the very edge of the scan, outside the trimmed image, were closed with paper texture from the same sheet. No printed line was retouched.

WHAT WAS NOT DONE

- no map content added, removed or redrawn
- no retouching over printed ink
- no change of proportions
- no global filter
- paper neither bleached white nor tinted
- authenticity marks kept: plate mark, deckle edge, honest patina

MEASURED ON RELEASE

The line is deep, not thickened	ink core 14 of 255 · ink area 1.06× the source
Nothing is burnt out at either end	0.00% of the sheet clipped to white · 0.00% crushed to black
The paper is even across the whole sheet	level 232 · unevenness 2.23, where 4 is the limit
The paper is warm — neither bleached nor tinted	R–B 34, inside the 24–40 band of the studio standard (paper tone D)
Paper texture is kept, not smoothed away	0.95 of the grain the archive scan itself had
Lines are sharper than the scan, with no halo	1.17× the source · halo 0.00%
Nothing of the archive is left behind	stains 0.00% · specks 0.00%

Engine revision 8, standard revision 7.1. Every criterion, with its target and the measured value, is listed in the record below.

WHAT IS IN THE ARCHIVE

287-coloured-world-map-outlines-of-botanical-1845-full-300dpi.jpg	19.6 MB
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287-coloured-world-map-outlines-of-botanical-1845-trim-300dpi.jpg	16.5 MB
formats/287-coloured-world-map-outlines-of-botanical-1845-3x2-300dpi.jpg	19.6 MB
formats/287-coloured-world-map-outlines-of-botanical-1845-4x3-300dpi.jpg	17.8 MB
formats/287-coloured-world-map-outlines-of-botanical-1845-5x4-300dpi.jpg	17.4 MB
formats/287-coloured-world-map-outlines-of-botanical-1845-iso-300dpi.jpg	18.0 MB
287-coloured-world-map-outlines-of-botanical-1845-passport.pdf	this document

Six print files and this passport, 109 MB in total, delivered as six separate ZIP archives (one print file, the passport and a README in each). Nothing else: the catalogue previews and the 1:1 detail crops shown on the shop page are not padding out this archive — any crop you want is already inside the full-resolution file.

Largest print at 300 dpi: 49.6 × 43.3 cm. At 240 dpi: 62.0 × 54.2 cm. At 200 dpi, still sharp on matte paper at arm's length: 74.3 × 65.0 cm.

APPENDIX: THE FULL ACCEPTANCE RECORD

ink core density, 0-255	14.0	2-22
black point (full resolution)	20.0	2-14
white point	242.0	237-244
clipped highlights, %	0.0	0
crushed shadows, %	0.0	0
paper level	231.79	227-237
paper evenness across the sheet	2.23	0-4
paper warmth R-B	34.0	24-40
residual stains, %	0.0	0-0.2
residual specks, %	0.0	0-0.5
paper texture kept vs source	0.95	0.60-1.00
edge sharpness vs source	1.17	>= 1.00
halo around lines	0.0	0-2
ink area vs source	1.06	0.90-1.12
absolute edge sharpness	489.95	>= 20

Restoration © Old Map Studio, 2026-10-05. The original map is in the public domain. This passport records what was measured, not what was hoped for.