S1 Table. Factors other than time known to influence varnish growth on petroglyphs.

Climate and microclimate	Moisture: There is a maximum growth rate at intermediate aridity. Both,
	hyperarid and humid conditions prevent and/or reverse varnish growth.
	Repeated moistening by dew, fog, drizzle, etc. enhances growth.
	Enhanced moisture in canvons or dry wash beds can locally enhance
	varnish growth.
	Temperature: Can affect weathering and oxidation rates, as well as
	microbial activity
	Wind: High winds can lead to aeolian erosion of varnish Cold-air drainage
	is important in steep terrain.
	Exposure: Frosion, dust deposition, and surface moisture are influenced
	by cardinal orientation and inclination of the rock surface, as well as by
	small-scale topography.
	Surface runoff: Water running off over cliff edges can strongly enhance
	varnish growth often resulting in obvious streaking. Shielding by
	overhanging cliffs or other factors producing rain shadow can reduce
	varnish growth.
Substrate characteristics	Stability: Resistance of rock substrate against weathering and erosion
	facilitates formation of a thick and long-lived varnish.
	Roughness and porosity: A rough and porous surface can retain dust and
	moisture better than a smooth one, facilitating varnish development. An
	effect of thermal conductivity of the host rock is also possible.
	Microtopography: Small depressions on upper surfaces of boulders
	(microbasins) retain dust and moisture and promote thick and lavered
	varnish.
	Iron mineral content of the substrate rock may affect initial varnish
	growth by catalysis
Geochemical variables	Physicochemical conditions: Varnish formation only occurs in a limited
	range of pH and Fh. Biogenic organic acids can dissolve varnish
	Dust flux: Amount and composition of deposited dust regulate the supply
	of Mn and other trace elements.
	Air pollution: Especially in urban and pear-urban conditions trace metal
	supply by air pollution can strongly enhance varnish growth
Microbiology	The amount and species composition of the microhial community on the
Will Obiology	rock surface can affect both varnish formation and weathering
	Microcolonial fungi can dissolve varnish
Potroglyph specific issues	Posidual varnish: If the original varnish was not completely removed
Petrogryph-specific issues	during the creation of the netrogluph, residual varnish can bias the
	monocurements caucing caucious regrowth actimates
	Reverking Detrogluphs are competings reverked at later times, resulting
	in loss apparent regrowth
	The standard standa
	Change in growth rate with time: Evidence suggests that varinish grows
	slowdown and halt
	Slowuowii dhu halt.
	Change in surface characteristics: Petroglyph creation by abrasion or
	pecking changes the surface roughness and texture, influencing varnish
	growth rate