${\bf Supplemental\ Information/Index}$

Table S1. Ethogram of elephant behavior. Behaviors have been grouped into 7 categories.

Category	Behavior	Description
ACTIVE		•
	Digging	Individual uses trunk, tusk, foot to dig in the
		dirt, mud, clay, or grass
	Dust Bathing	Individual throws dust/dirt onto their body
	Manipulating	Individual is interacting with enrichment item
	Enrichment	
	Making Mud	Individual uses trunk or foot to mix water and dirt/clay
	Exploring	Individual is alert with trunk lifted to smell the
	Environment	air
	Mudding	Individual is laying down in the mud and moving around
	Scratching	Individual is using trunk, foot, tusk, or habitat feature to scratch themselves
	Splashing/Spraying	Individual is standing in a pool splashing or spraying water with their trunk
	Keeper Interaction	Individual is interacting with a keeper
SOCIAL INTERACTION		
	Trunk	Individual is engaging in play with a
	Wrestling/Sparring	conspecific by inter-wrapping trunks and pushing
	Face Touch	Individual is using their trunk, ear, or head to touch the face of a conspecific
	Food Sharing	Individual is sharing food with conspecific
	Trunk in Mouth	Individual places trunk within or touches around the mouth of conspecific
	Trunk Over	Individual places trunk over the body of conspecific
	Trunk Reach	Individual reaches trunk out towards conspecific to smell and/or touch
	Tail Grab	Individual grabs tail of conspecific
	Displace	Individual moves towards conspecific to take their place
	Displaced	Individual is moved by conspecific approaching
	Push	Individual using trunk, tusks, or head to push conspecific
	Tusk	Individual uses tusks to strike conspecific
	Threat	Individual flares ears, lifts trunk, and vocalizes at conspecific

	Chase	Individual pursues conspecific
	Trunk Strike	Individual swings trunk and strikes conspecific
	Testing – vulva	Individual uses trunk to touch and smell the
		vulva of a conspecific
	Testing – urine/feces	Individual uses trunk to touch and smell the
		urine and/or feces of a conspecific
	Breeding/Mounting	Individual is mounting and/or breeding with
		conspecific
	Belly Tap	Individual is masturbating by tapping penis to
		belly
	Affiliative Recipient	Individual is investigating conspecific's trunk
		while receiving affiliative behavior from
		conspecific (i.e., face touch, trunk over, trunk
		in mouth)
MAINTENANCE		
	Urinating/Defecating	Individual is urinating or defecating
STEREOTYPIC		
	Swaying	Individual is rocking back and forth in place,
		often with ears flared out
	Pacing	Individual is walking in a repeated pattern A-
		B-A; may occur with trunk periscoping above
		head
	Spinning	Individual is remaining in one place and
		turning in circles
	Chortle	Individual is blowing air through nose/throat to
		produce an oral stereotypy
	Contorting	Individual is standing in place and twisting legs
		in an unnatural stance
	Barn Pushing	Individual is using trunk, tusks, or head to push
		against a barn structure repeatedly
RESTING		
	Laying Down	Individual is laying on side with eyes open or closed
	Inactive – Alert	Individual is standing with head and trunk
		relaxed but remains alert to surroundings
	Inactive – Rest	Individual is standing with head lowered and
		trunk fully relaxed on ground; not alert to
		surroundings
FORAGING		
	Foraging	Individual is eating/drinking or reaching trunk
		towards food items
NOT VISIBLE		
	Not visible	Individual is not visible to the observer and
		behavior cannot be determined