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APPENDIX S1. Documentation required for effective use of the PiCUS 3 Sonic Tomograph. (A) Collection spreadsheet. Photographs of trees showing (B) location of scanning points, (C) status category codes, and (D) examples of tree associates and diseases.

A. Spreadsheet for collecting visual and scanning data in the field.

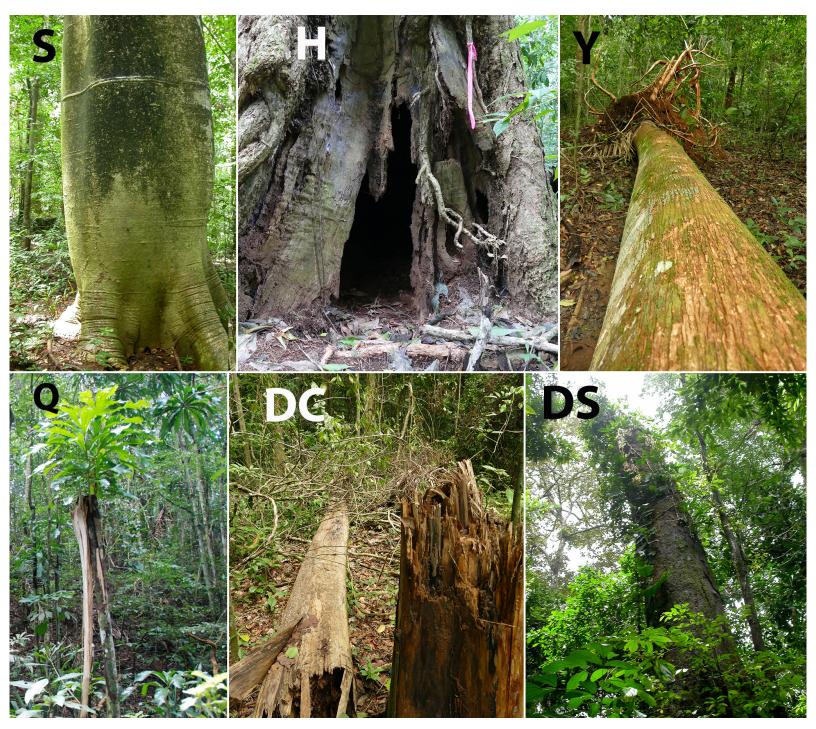
Date:		Species:	
Location:		Tag#:	
'		People:	
	Measurement		Number of points
DBH (mm):		# for Geometry:	
Circumference (mm):		# for Sonic	
Perimeter (mm):		Circumf/#points:	
Nail # South Side:			
Nail #s on main axis:			
Photos for docur	mentation		
Observation			
Observation	Ī		S=apparently healthy; H =trunk hollow;
			Y =trunk fallen with roots exposed; Q =trunk
Tree status	Tree Status:		snapped; DC =dead fallen; DS =dead standing
observations			N=none; F=fungi; H=ants; C=termites; L=lianas/epiphytes
	Associates:		L-nanas/epipitytes
Symptoms/signs of disease (yes/no)?			
Observations:			
	1		
Scan indicates decay (yes/no)?			
Observations:			
Wood collected (ye	s/no)?		
Observations:			
Fungus collected (y	es/no)?		
Observations:			

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B. Three images of the tree *Trichilia tuberculata* (plot tag 3792) from roughly south, northeast, and northwest of the trunk, showing the location of scanning points (black numbered tags) labeled in relation to trunk features.



C. Examples of the tree status categories. S = Apparently healthy tree. H = Hollow trunk on live tree. Y = Tree fallen with exposed roots, but alive (i.e., with green leaves). <math>Q = Tree snapped, but alive (here, resprouting from stump). DC = Dead fallen. DS = Dead standing.



D. Examples of tree associates, disease signs, and symptoms for inclusion on the data sheet. (A) Basidiomata (reproductive bodies) of wood decay fungus (associate code F). (B) Canker on trunk of tree (a symptom). (C) Exudate associated with sunken lesion (a symptom). (D) Liana wrapped around the trunk (associate code L). (E) Epiphytic climber on trunk (associate code L). (F) Termite trail on trunk (associate code C) passing through thick mat of epiphytic moss and liverworts (associate code L). (G) Nest of *Azteca* ants (associate code H). (H) Root-rot decay on exposed roots on tree with status code Y (a symptom). (I) Wound crack in trunk (a symptom), with hollow inside (status code H).

