

Table S1. Metashape setting for UAV structure from motion processing in the Align Photos, Optimized Alignment, and Build Dense Cloud steps.

Parameter	Setting
Align Photos	
Accuracy	Highest
Generic Preselection	Yes
Reference Preselection	Source
Reset Current Alignment	No
Key Point Limit	40,000
Tie Point Limit	4,000
Apply Mask To	None
Exclude Stationary Tie Points	Yes
Guided Image Matching	No
Adaptive Camera Model Fitting	Yes
Optimized Alignment	
Fit F	Yes
Fit cx, cy	Yes
Fit b1, b2	No
Fit K1, K2, K3	Yes
Fit K4	No
Fit p1, p2	Yes
Fit Additional Corrections	No
Adaptive Camera Model Fitting	Yes
Build Dense Cloud	
Quality	High
Reuse depth maps	Yes
Depth Filtering	Mild
Calculate point colour	Yes
Calculate point confidence	No