Corrigendum

[Original article] Bergstrom K, Lawrence AB, Pelissero AJ, Hammond LJ, Maro E, Bunn HT, Musiba CM. Aerial map demonstrates erosional patterns and changing topography at Isimila, Tanzania. S Afr J Sci. 2019;115(7/8), Art. #5911. https://doi.org/10.17159/sajs.2019/5911

Due to an error in the reference plane, the elevation range shown for the digital elevation model (DEM) in Figure 5a (Page 3) is incorrect. The correct elevation range is 1629.41–1679.64 m. The DEM and orthomosaic map data were reprocessed using Agisoft Metashape 1.7.4. Processing parameters for the corrected DEM and orthomosaic differ slightly from those in Supplementary table 1 as a result of correcting the reference plane and differences in technical specifications of the computers used to process data. The corrected DEM, orthomosaic, and processing parameters are available for download at: https://doi.org/10.5281/zenodo.4592344. The corrected Figure 5 and Supplementary table 1 appear below. The error does not affect the interpretation of data in the original article.
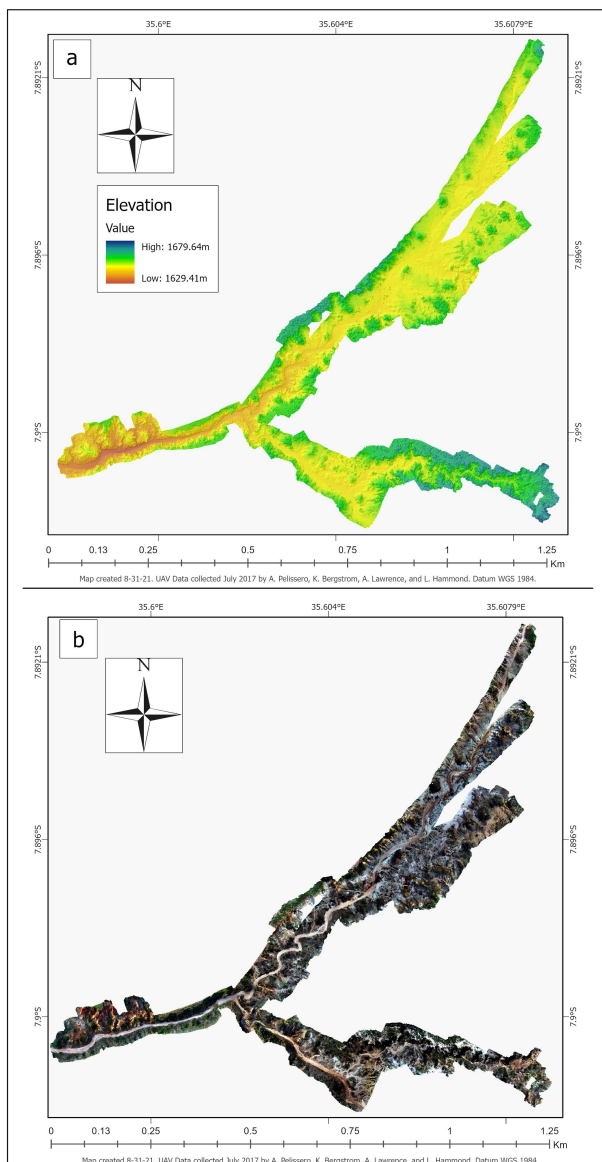
Figure 5: (a) Digital elevation map of Isimila. (b) Orthomosaic map of Isimila.

Supplementary table 1: Agisoft Metashape processing parameters for Isimila map

General	
Aligned cameras	4220 of 4419
Camera pixel size	0.0025
Coordinate system	WGS* 84 (EPSG**:4326)
Rotation angles	yaw, pitch, roll
UAV camera specifications	
Sensor size (mm)	13.2 x 8 mm
Focal length (mm)	8.8 mm/24 mm (35 mm equivalent)
Field of view	84°
Image size (pixels)	4096 x 2160
Effective pixels	20 megapixels
Image data capture parameters	
Flight altitude	40 m
Average flight velocity	4 m/s
Ground sample distance	1.6 cm / pixel
Image footprint	60 x 31 m
Total surface	1.533 km^2
Alignment parameters	
Alignment accuracy	High
Pair pre-selection	Generic, reference
Key point limit	40 000
Tie point limit	0 (no limit)
Exclude stationary tie points	No
Guided image matching	No
Adaptive camera model fitting	Yes
Matching time	1 h, 56 min
Alignment time	15 h, 34 min
Sparse point cloud	
Points	13 963 537 of 15 221 034
RMS reprojection error	0.150504 (0.709835 pix)
Max reprojection error	0.599607 (44.886 pix)
Mean key point size	4.13703 pix
Average tie point multiplicity	4.07828
Dense point cloud and depth maps	
Quality	High
Depth filtering	Aggressive
Depth map count	4220
Points	821 513 074
Depth map processing time	2 h, 56 min
Dense cloud generation time	5 h, 46 min
Digital elevation model	
Size	86 103 x 84 329
Pixel size	2.39 cm/pixel
Source data	Dense cloud
Interpolation	Enabled
Processing time	1 h, 8 min
Orthomosaic	
Size	104 582 x 102 432
Pixel size	1.19 cm/pixel
Channels	3, uint8
Coordinate system	WGS 84 (ESPG:4326)
Blending mode	Mosaic
Enable colour correction	No
Enable hole filling	Yes
Processing time	2 h, 38 min
Software	
Version	1.7.4.12950
Platform	Windows 10 x 64

*World Geodetic System 1984

**European Petroleum Parameter System