

Supplementary material

Table S1: Precision on the parametrization of the different steps to build the photogrammetric model, digital surface model (DSM) and orthomosaic (RGB).

WorkFlow	Parameter	Value
Detect markers	tolerance	50
Alignement	quality	medium
	key point limit	40.000
	tie point limit	4.000
Dense cloud	quality	medium
	depth filtering	mild
	calculate point colors	enable
	calculate point confidence	enable
DSM	type	geographic
	resolution	default
	source data	dense cloud
	interpolation	enable
Orthomosaic	type	geographic
	surface	DEM
	blending mode	mosaic
	hole filling	enable
	pixel size	0.001m

Table S2: Accuracy of the photogrammetric model. "Long. Error" as the positioning error in longitude, "Lat. Error" in latitude and "Depth" error in verticality. Those three values were calculated as the mean positioning error of the different field control points (position of the different quadrats collected with the underwater geolocation system) for the sites of Bizeux and Buharats. Scaling error reflects the error in distance between the different points of the model, calibrated from the known dimension of the 2.00 m rule.

	Bizeux	Buharats
Long. Error (m)	0.21	0.86
Lat. Error (m)	0.26	1.07
Depth Error (m)	0.04	0.39
Scaling Error (m)	0.11	0.08