

Figure S1. Overlap characteristics of the historical aerial image datasets and comparison among raw and optimized sparse cloud series.

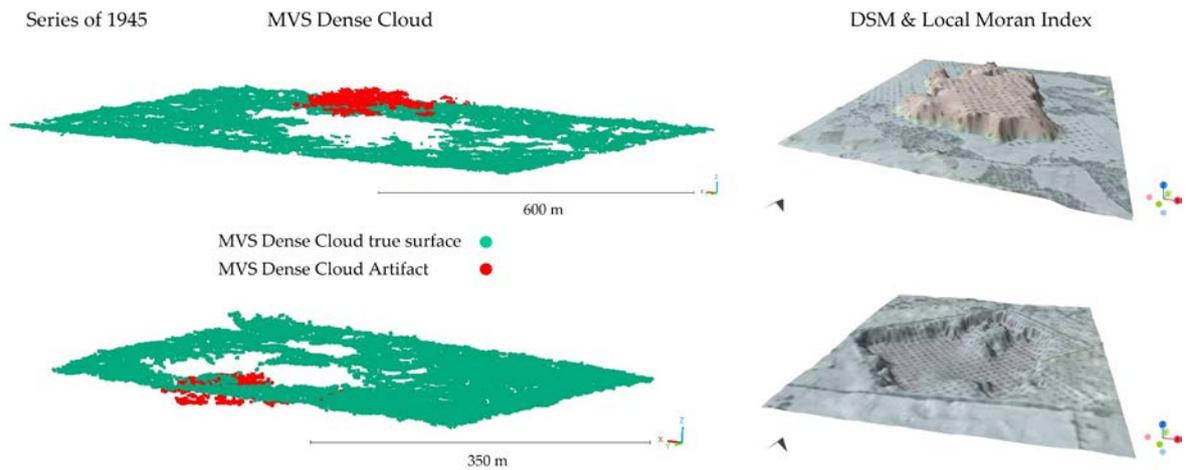


Figure S2. Detail of the butte-shaped artifact generated in the 1945 DSM.

Table S1. Dense cloud series processing data and product main characteristics

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Series	Image Quality Resolution	Depth Filter	Process time	Dense cloud (nb.)	Filtered points (%) (confidence < 1	Dense filtered cloud (nb.)	Elevation MAE (m)
1945	Medium	Aggressive	8 m 43 s	9195308	16.81	7649539	8.22
1979	Medium	Aggressive	42 m 9 s	22715067	19.03	18390230	1.74
1984	Medium	Aggressive	3 h 44 m	82669205	12.78	72103798	1.58
2008	High	Mild	9 h 47 m	359331712	11.92	316495119	0.91

* As an intermediate quality step in the MVS process, the elevation accuracy of the MVS dense clouds was measured as the difference between the elevation reference *ALS-Validation Points (2019)* and the predicted elevations at each MVS cloud closest point. We calculate the Mean Absolute Error (MAE) from the linear relationship between the ALS 2019 elevations and those predicted by each MVS cloud.