Online supplementary material

Satellite evidence of archaeological site looting in Egypt: 2002–2013

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The following represents the formulae we used:

a. AreaPITS [Date] / AreaPRMTR [Site] = % of site looted in [Date].
   i. AreaPITS [Total] / AreaPRMTR [Site] = % of site looted.
b. AreaENCR [Date] / AreaPRMTR [Site] = % of site encroached in [Date].
   i. AreaENCR [Total] / AreaPRMTR [Site] = % of site encroached.
c. AreaPITS [Date]+ AreaENCR [Date] / AreaPRMTR [Site] = % of site affected in [Date].
   i. AreaPITS + AreaENCR / AreaPRMTR [Site] = % of site affected.

The average pit size can be calculated yearly or in bulk totals as a ratio between the number of pits and the area of the pits to ascertain the volume of moved earth and estimate the amount of time spent at each site.

a. Pits [Date] / AreaPITS [Date] = average pit size [Date] (m²).
   i. Pits [Total] / AreaPITS [Total] = average pit size (m²).

To determine the yearly trends in total damage, we calculated the ratio between the total damage for all years in the study to each individual yearly amount of damage.


To ascertain the progression in total site damage over time, we calculated the ratio of yearly damage (adding each year consecutively) to total damage.

c. Yearly total damage by date1 / total sites area = % damage to total sites area by date1.
d. Yearly total damage by date1+2 … / total sites area = % damage to total sites area by date1+2.
Figure captions

Figure S1. Adjusted vs unadjusted total % damage to archaeological sites in Egypt.

Figure S2. Unadjusted pit count per year.

Figure S3. Unadjusted pit area per year.

Figure S4. Unadjusted encroachment area per year.

Figure S5. Total affected site count per year (unadjusted).

Figure S6. Projected damage to archaeological sites (unadjusted) to 2039, when all of the 1100 study sites will be affected; it differs from the adjusted projection by one year.

Figure S7. Flowchart of imagery analysis.