

Figure S1. (a) Calcium carbonate concretions on the superior edge in the *Specular Enhancement* mode; (b) Calcium carbonate concretions in the concavities, enhanced by the *Diffuse Gain* view mode; (c) RTIViewer *Diffuse Gain* mode visualization of the entire Surface 1 of sample S1; (d) magnification on the hemispherical depression and its two concentric and elongated engravings (e) Normal Visualization mode view of Surface 1.

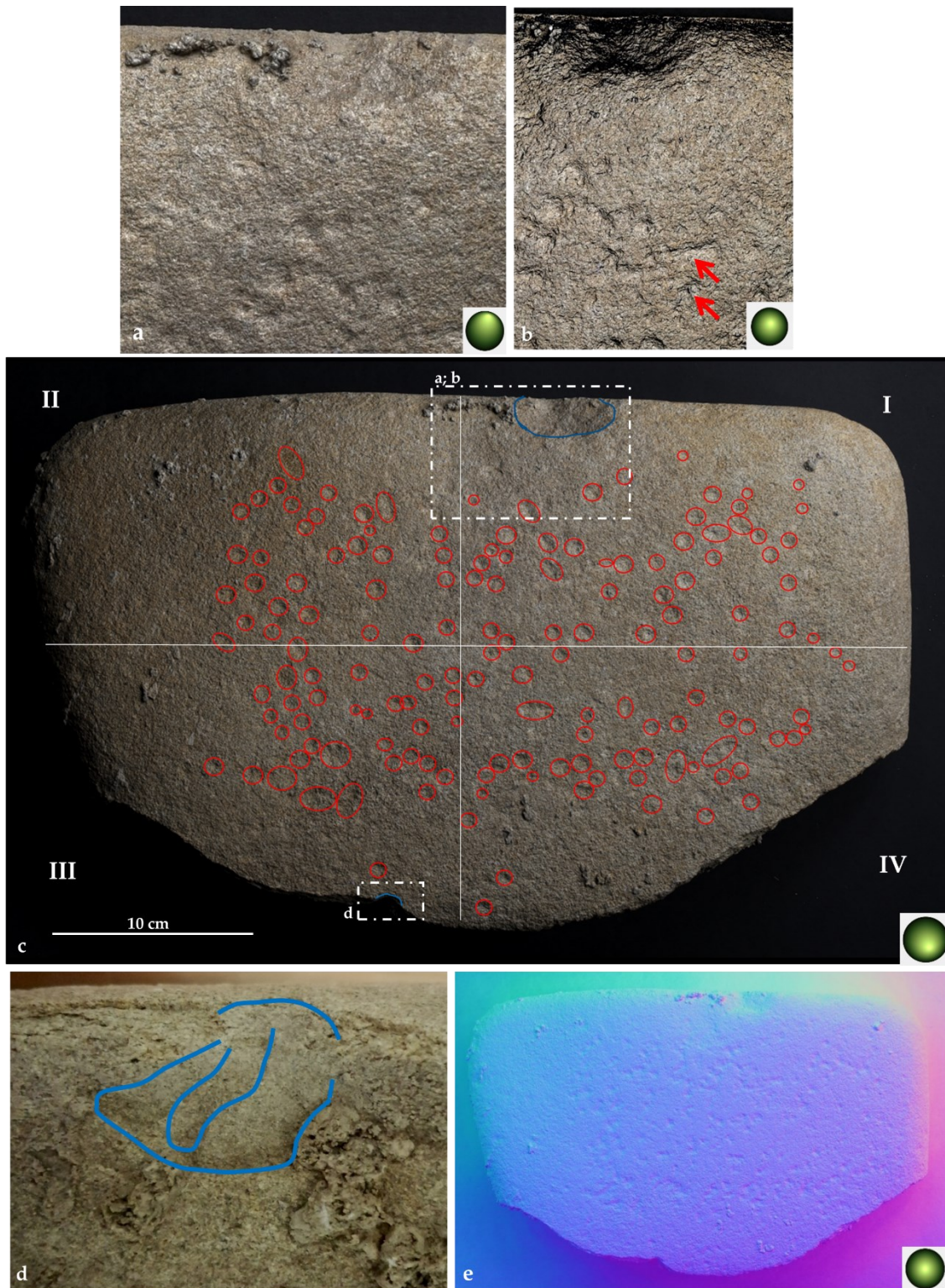


Figure S2. (a) RTIViewer *Diffuse Gain* mode visualization of the entire Surface 2 of sample S1; (b) Diffuse Gain visualization of mamillated aggregates of calcium carbonate; (c) Big calcium carbonate concretion with brown pigmentation particularly evident in the *Normal Upsharp Masking* view mode.

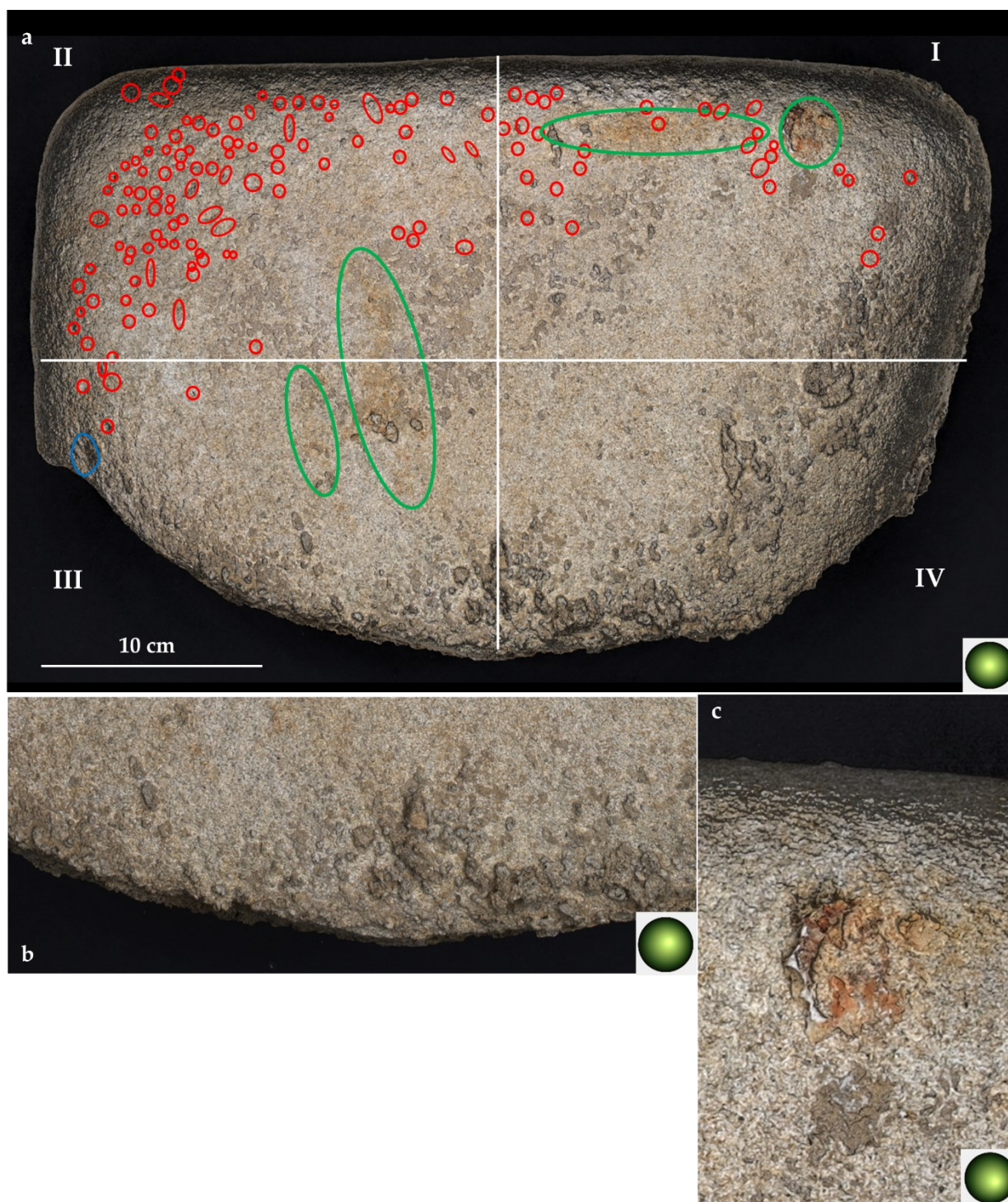


Figure S3. (a) *Diffuse Gain* visualization (Gain=50) of the upper groove morphology; (b) *Diffuse Gain* visualization (Gain=50) of the inferior groove shape; (c) *Normal Visualization* mode view of the inferior groove infilling; (d) RTIViewer *Diffuse Gain* mode visualization of the entire Surface 1 of sample S2; (e) Surface 1 with *Normal Visualization* mode view.

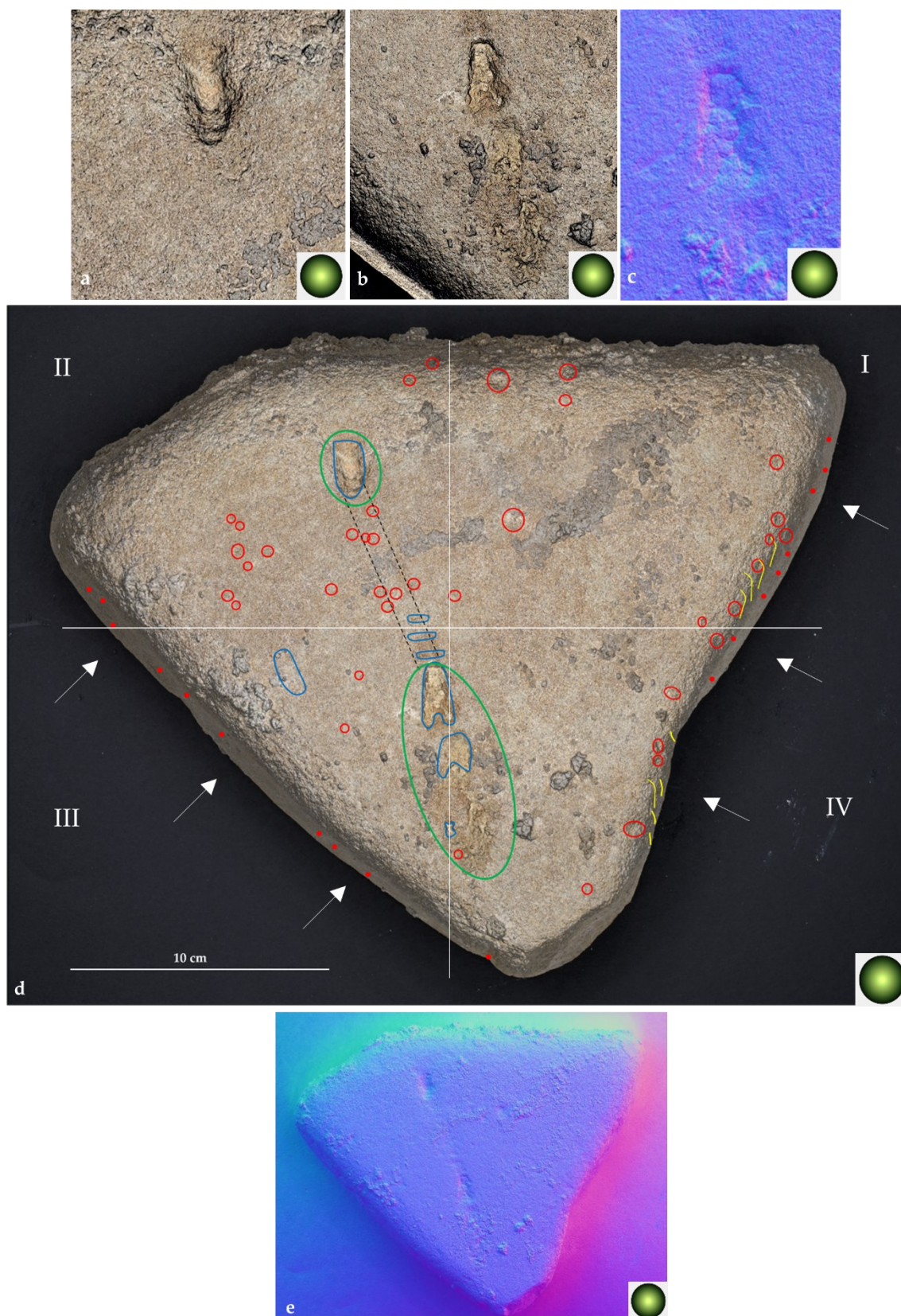


Figure S4. (a) RTIViewer *Diffuse Gain* mode visualization of the entire Surface 2 of sample S2; (b) Calcium carbonate infilling of a groove in *Normals Visualization* mode view; (c) Fracture surface in *Normal Upsharp Masking* view mode.

