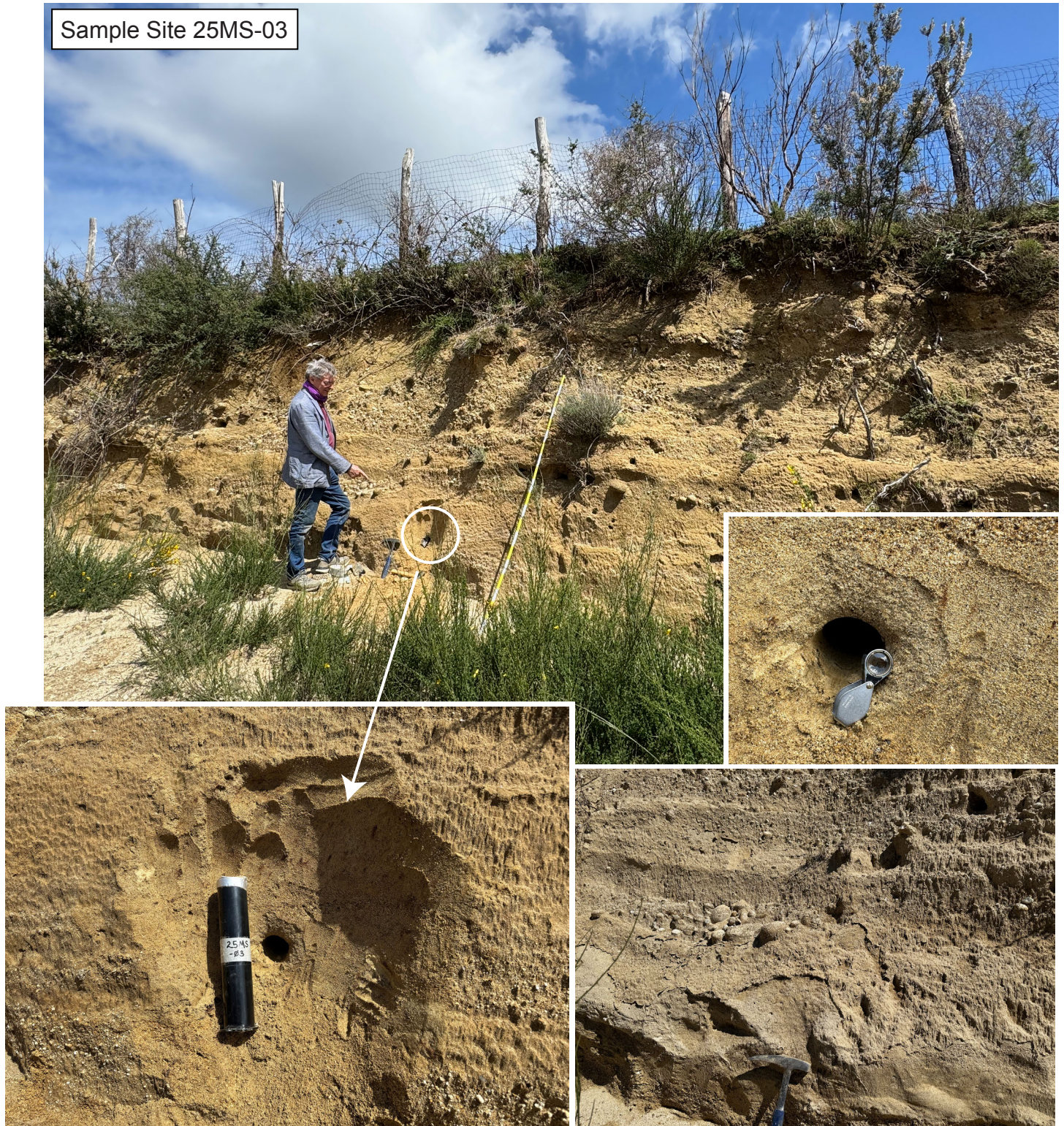




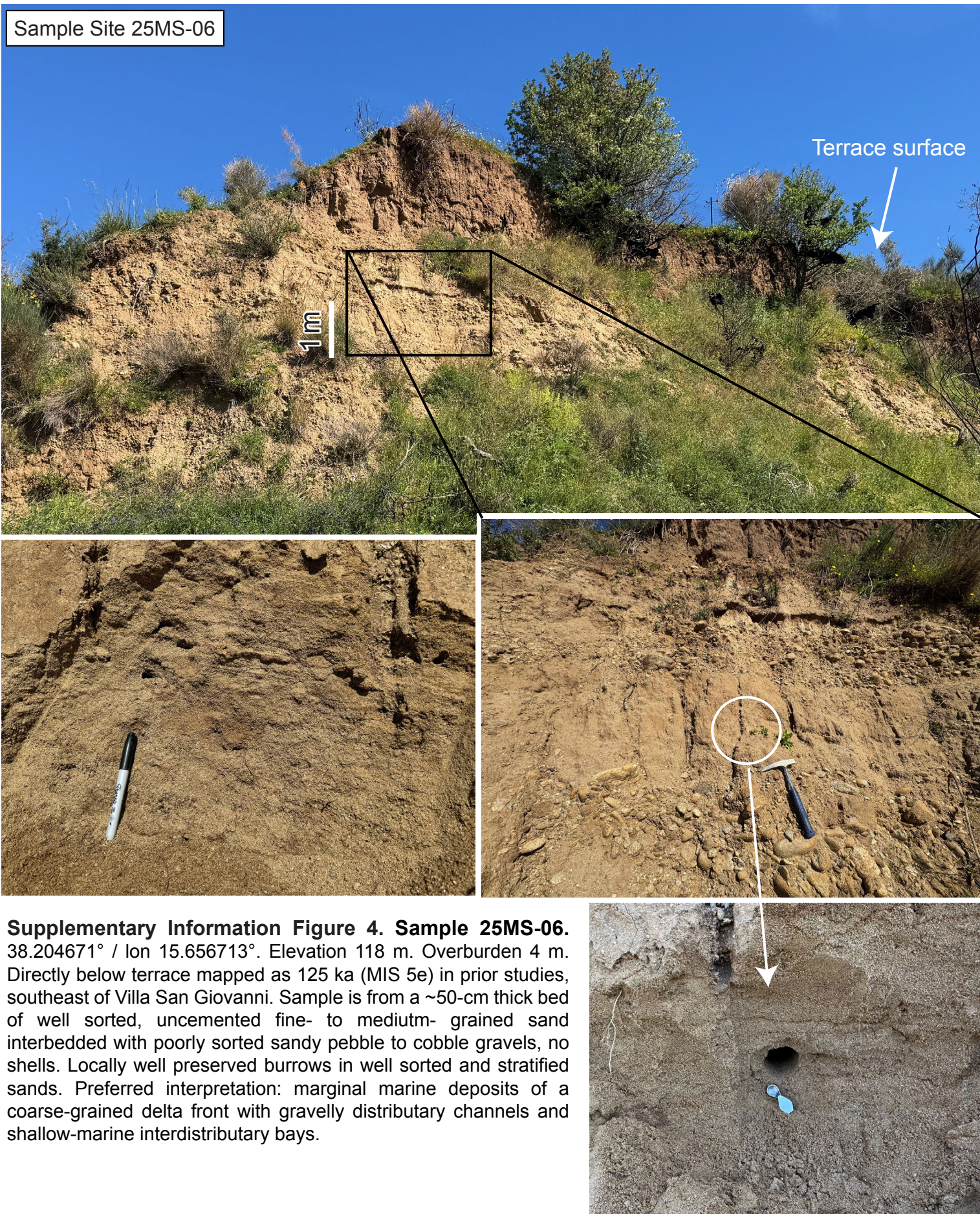
Supplementary Information Figure 1. Sample 25MS-02. lat 38.234919° / lon 15.911353°. Elevation 701 m. Overburden 21 m. Well sorted fine-grained sand interbedded with shelly granular sand beds (Beach Sands of Jacques et al., 2001). Sample site is ~21 m below flat terrace surface. The lower intermediate surface is Holocene or historical. The sampled fine sand bed is ~60 cm thick, interbedded with coarse granular sands and small-pebbly gravels. Lots of broken and reworked marine mollusc shells in horizontally stratified granular coarse shelly sand. Abundance and concentration of reworked shells increase up-section above sampled bed. Interpreted as deposits of a high-energy beach to upper shore face setting, possibly delta front.



Supplementary Information Figure 2. Sample 25MS-03. lat 38.245610° / lon 15.871404°. Elevation 886 m. Overburden 2.5 m. Beach Sands unit of Jacques et al. (2001), ~2 km SE of Sant'Eufemia d'Aspromonte. Well sorted, very weakly cemented fine-grained massive sand interbedded with lenticular cross-stratified sands, very coarse granular sands, and small channels filled with well rounded pebble- to cobble-size granitic clasts (same as underlying basement rock near this location). Sample site is 2.5 m below vegetated terrace surface.



Supplementary Information Figure 3. Sample 25MS-05. lat 38.246186° / lon 15.759506°. Elevation 597 m. Overburden 3.25 m. Well sorted, uncemented fine- to medium-grained sand. Weakly stratified to massive, no shells. Beach deposits of Jacques et al. (2001). Sample site is 3.25 m below the terrace surface, at top of a thick section (least 30 m) of similar uncemented well sorted sand with locally exposed trough cross bedding.





Sample Site 25MS-11



Supplementary Information Figure 6. Sample 25MS-11. lat 38.078848° / lon 15.716045°. Elevation 368 m. Overburden 16 m. Uncemented sandy gravels and thin sand beds exposed in high shear cliff of “Pozzi gravel” in abandoned gravel pit. Common broken & abraded marine shell fragments including pecten, oysters, corals, encrusting bryozoans, echinoid spines, maybe no bivalves. Also see poorly sorted gravel-filled channels and cross bedding, lots of horizontal stratification in moderately to well sorted sands and gravels. Looks like a marginal-marine gravelly delta-front setting.