**Beldados et al., Pre-Aksumite plant husbandry in the Horn of Africa**

**ESM 3** List of abbreviations of the identified phytolith morphotypes with their taxonomic and anatomic classification.

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| --- | --- | --- | --- |
| **Abbreviation** | **Morphotype** | **Anatomical attribution** | **Taxonomical interpretation** |
| ELO\_ENT | Elongate entire | Non-diagnostic | Poaceae/Cyperaceae |
| ELO\_DET | Elongate dentate | Non-diagnostic | Poaceae |
| ELO\_DEN | Elongate dendritic | Inflorescence | Poaceae |
| ELO\_SIN\_REG | Elongate sinuate regular | Leaf | Poaceae/Cyperaceae |
| ELO\_SIN\_IRR | Elongate sinuate irregular | Leaf | Poaceae/Cyperaceae |
| ELO\_SIN\_CAS | Elongate sinuate castellate | Leaf | Poaceae/Cyperaceae |
| ELO\_SIN\_COL | Elongate sinuate columnar | Leaf | Poaceae/Cyperaceae |
| BIL\_VLL\_VLS | Bilobate very large/very long shank | Non-diagnostic | cf. Aristidoideae |
| BIL\_LL\_LS | Bilobate large/long shank | Non-diagnostic | Panicoideae/Chloridoideae |
| BIL\_ML\_LS | Bilobate medium/long shank | Non-diagnostic | Panicoideae/Chloridoideae |
| BIL\_ML\_SS | Bilobate medium/short shank | Non-diagnostic | Panicoideae/Chloridoideae |
| BIL\_ML\_CON | Bilobate medium/constricted shank | Non-diagnostic | Panicoideae/Chloridoideae |
| BIL\_SL\_CON | Bilobate small/constricted shank | Non-diagnostic | Panicoideae/Chloridoideae |
| BIL\_PLA | Bilobate plateaued | Non-diagnostic | Poaceae |
| POL\_NOD | Polylobate nodular | Non-diagnostic | Poaceae |
| POL\_TRI | polylobate trilobate | Non-diagnostic | Poaceae |
| POL\_MUL | polylobate multilobate | Non-diagnostic | Poaceae |
| CRO\_TAB | Cross tabular | Non-diagnostic | Panicoideae/Chloridoideae |
| CRO\_TRA | Cross trapeziform | Non-diagnostic | Panicoideae/Chloridoideae |
| CRO\_CAR | Cross carinate | Non-diagnostic | Panicoideae |
| CRO\_TRI | Cross triangle | Non-diagnostic | Panicoideae/Chloridoideae |
| SAD\_TAB\_SYM | Saddle tabular symmetrical | Non-diagnostic | Chloridoideae |
| SAD\_TAB\_LON | Saddle tabular long | Non-diagnostic | Chloridoideae |
| SAD\_TAB\_SHO | Saddle tabular short | Non-diagnostic | Poaceae |
| SAD\_TRA\_PLA | Saddle trapeziform plateaued | Non-diagnostic | Poaceae |
| SAD\_TRA\_BIL | Saddle trapeziform bilobated | Non-diagnostic | cf. Panicoideae/Chloridoideae |
| SAD\_COL | Saddle collapsed | Non-diagnostic | cf. Chloridoideae |
| RON\_TAB\_PSI | Rondel tabular psilate | Non-diagnostic | Poaceae |
| RON\_TAB\_COR | Rondel tabular corniculate | Non-diagnostic | Poaceae |
| RON\_TRA\_PSI | Rondel trapeziform psilate | Non-diagnostic | Poaceae |
| RON\_TRA\_COR | Rondel trapeziform corniculate | Non-diagnostic | Poaceae |
| RON\_CAR | Rondel carinate | Non-diagnostic | Poaceae |
| RON\_C3 | Rondel C3 | Non-diagnostic | Pooideae |
| TRA | Trapezoid | Non-diagnostic | Poaceae |
| CRE\_SIN | Crenate sinuate | Non-diagnostic | Pooideae |
| CRE\_CRE | Crenate crenate | Non-diagnostic | Pooideae |
| PAP | Papillate | Inflorescence | Poaceae |
| ACU\_BUL | Acute bulbosus | Non-diagnostic | Poaceae/Cyperaceae |
| ACU\_FUS | Acicular fusiform | Non-diagnostic | Non-diagnostic |
| SPH\_SPI | Spheroid psilate | Non-diagnostic | Non-diagnostic |
| SPH\_ECH\_ARE | Spheroid echinate arecaceae | Non-diagnostic | Arecaceae |
| SPH\_ECH\_ZIN | Spheroid echinate zingiberales | Non-diagnostic | Zingiberales |
| SPH\_ORN\_PLI | Spheroid ornate plicate | Non-diagnostic | Zingiberales |
| SPH\_ORN\_VER | Spheroid ornate verrucate | Non-diagnostic | cf. Zingiberales |
| COM\_CON\_CYA | Commelinaceae conical cyanotis | Seed | *Cyanotis* sp. |
| COM\_CON\_COM | Commelinaceae conical commelina | Seed | Commelina sp. |
| COM\_PRI | Commelinaceae prismatic anisopolar | Seed | Commelinaceae |
| CYP\_CON | Cyperaceae conical | Culm/Leaf | Cyperaceae |
| STO | Stomate | Leaf | Poaceae |
| MES | Mesophyll | Leaf | Dicotyledonous |
| TRC | Treachery | Culm/Leaf | Non-diagnostic |
| TAB\_POL | Tabular polygonal | Non-diagnostic | Non-diagnostic |
| TAB\_AMO | Tabular amoeboid | Non-diagnostic | Dicotyledonous |
| SMA\_SCL | Sclerenchyma sclereid | Non-diagnostic | Dicotyledonous |
| BLO | Blocky | Non-diagnostic | Non-diagnostic |
| BUL\_FLA | Bulliform flabellate | Leaf | Poaceae/Cyperaceae |