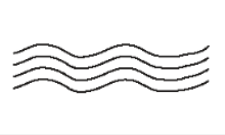


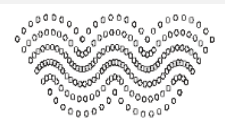
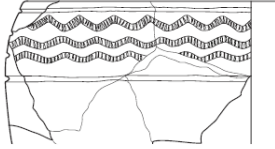




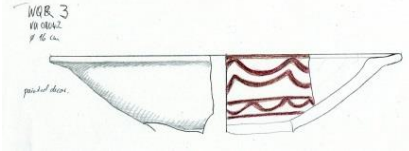











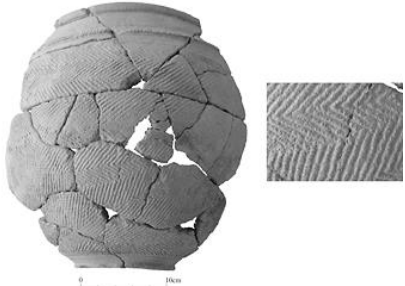
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
01	Wavy line	Incision	Incised wavy line (IWL)	Sahara/Middle Nile Valley <i>Early to middle Holocene</i> (9th–5th millennium BC)	 <p>Source: Drawing Forschungsstelle Afrika</p>
01	Wavy line	Incision (using stick or comb)	"Wavy line"	Ethiopia <i>Pre-Aksumite and Aksumite</i> (1st millennium BC/AD)	 <p>Yeha, Ethiopia: bowl interior; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>  <p>Melazo, Ethiopia: bowl exterior; Source: DAI, Orient-Dept., Sanaa Branch (J. Kramer)</p>
01	Wavy line	Impression Rocker technique	Dotted wavy line (DWL)	Sahara/Middle Nile Valley <i>Early to middle Holocene</i> (9th–4th millennium BC)	 <p>Source: Drawing Forschungsstelle Afrika</p>

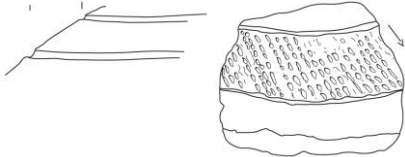
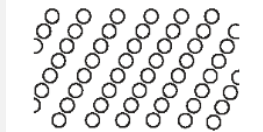

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
01	Wavy line	Impression Rolling tool (rigid roulette?)		Middle Nile Valley <i>Meroe</i> (3rd century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project: HVU-08-0549 (M. Wetendorf, U. Nowotnick)</p>
01	Wavy line	Impression Roulette, twisted cord roulette, which was knotted over itself		Middle Senegal valley, Tilemsi, North-Mali, Burkina Faso, Cameroon (c. 2500–800 BC)	 <p>Walaldé, Senegal; Source: Haour – Manning 2010 https://doi.org/10.5284/1000120 (TCR3; Image: S. McIntosh)</p>
01	Wavy line	Painted	Vertical wavy lines, white or yellow on red (slip)	Middle Nile Valley <i>Late- to post-Meroitic, possible Early Medieval</i> (2nd–7th century AD)	 <p>Akad, Sudan; Source: Akad Excavations (Mohamed Ali Faroug)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
01	Wavy line	Painted	Vertical wavy lines, white or yellow on red (slip)	Lake Chad (c. 12th–14th century AD)	 <p>Tié, Chad; Source: Frobenius Institute, Frankfurt/M (C. Magnavita)</p>
02	Arches/Arch shaped motifs	Incision or impression, (concentric)	Incised wavy line (IWL), dotted wavy line (DWL)	Sahara/Middle Nile Valley <i>Early to middle Holocene</i> (9th–4th millennium BC)	 <p>Source: Drawing Forschungsstelle Afrika</p>
02	Arches/Arch shaped motifs	Painted	Arched festoon	Ethiopia <i>Aksumite</i> (1st millennium AD)	 <p>Wuqro, Ethiopia; Source: DAI, Wuqro Projekt, VU-08-042 (U. Nowotnick)</p>





No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
03	Herring bone pattern Simple	Impression Comb	Herring bone pattern (horizontal or vertical)	Middle Nile Valley <i>Meroe</i> (3rd century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (B. Briewig)</p>  <p>Dar-al-Arab, site 3-Q-102, Sudan; Source: SARS Anglo-German Expedition to the Fourth Cataract (P. Wolf)</p>
03	Herring bone pattern Alternating	Incision	Incised herring bone pattern (combined with stamp decor)	Northern Ethiopia, Yeha <i>Pre-Aksumite</i> (late 2nd millennium BC)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
03	Herring bone pattern Alternating	Incision	Incised herring bone pattern	Lower Wadi Howar (beginning of 3rd millennium BC)	 <p>Abu Tabari S02/28, Sudan; Source: SFB 389 ACACIA (F. Jesse)</p>

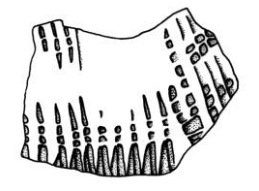


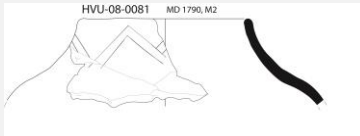
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
03	Herring bone pattern Alternating	Impression Comb or incision	Alternating herring bone pattern	Lower Nubia <i>A-Group, „Proto“ C-Group, Pre-Kerma</i> (3rd millennium BC)	 Aniba, Lower Nubia (Egypt); Source: Ägyptisches Museum Leipzig, Objekt Leipzig 4333 (M. Wenzel)
03	Herring bone pattern Alternating	Impression Comb, eventually rocker technique	Laqiya-Type pattern	Wadi-Howar- and Laqiya-Region, partly in the Nile Valley (6th/5th millennium BC) chronologically relevant	 Djabarona 84/13, Wadi Howar, Sudan; Source: AAArC (arachne.dainst.org/entity/6064296)
03	Herring bone pattern Alternating	Impression Comb	Impressed herring bone pattern	Egypt, Elephantine <i>Old Kingdom, 6th Dyn.</i> (c. 2300 BC)	 Elephantine, Egypt; Source: DAIK, Elephantine-Projekt: Z 3969


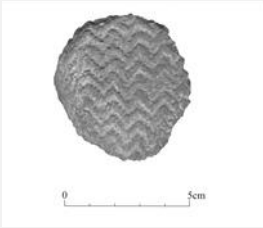

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
03	Herring bone pattern Alternating	Impression Comb		Northern Ethiopia, Yeha <i>Pre-Aksumite</i> (late 2nd millennium BC)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
03	Herring bone pattern Alternating	Impression Fine comb	Diagonally hatched friezes	Northern Ethiopia, Rama (S1, S40) (date ?)	 <p>Rama, Ethiopia; Source: Universität Leipzig, Routes of Interaction: s1.1 (P. Collet/A. Uhlschmidt)</p>
03	Herring bone pattern Alternating	Impression Roulette, braided strip roulette		Niger Inland Delta and adjacent regions, Dogon country (1st and 2nd millennium AD)	 <p>Dangandouloun (Bandiagara Plateau), Mali; Source: Haour – Manning 2010 https://doi.org/10.5284/1000120 (BSR1, Image: A. Mayor)</p>



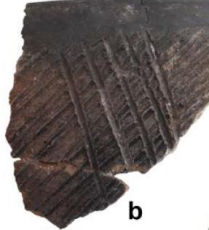
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
04	Band/Bands of parallel dotted lines	Impression Single comb impressions (vertical, horizontal, diagonal)		Northern Ethiopia, Rama (S40-AI-1) (date ?)	 <p>Rama, Ethiopia; Source: Universität Leipzig, Routes of Interaction: s40AI-1.1 (P. Collet/A. Uhlschmidt)</p>
04	Band/Bands of parallel dotted lines	Impression, Comb (vertical, horizontal, diagonal)	Dotted lines	Western Sudan, Middle Nile Valley “Neolithic”, Kerma, Meroe Chad, Niger „Neolithic“	 <p>Source: Drawing Forschungsstelle Afrika</p>
05	Row(s) of impressions	Impression		Northern Ethiopia, Yeha <i>Pre- Aksumite</i> (late 2nd millennium BC) Eastern Sudan, Gash-Delta <i>Amm Adam Group</i> (c. 6000–4000 BC)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>

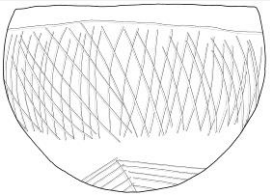
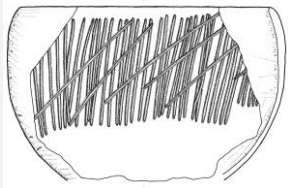
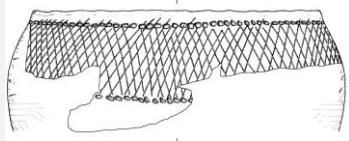

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
06	Planar decoration bands	Impression, Comb, rocker stamp, occasionally with colour fill		Middle Nile Valley <i>Meroe</i> (3rd century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (P. Wolf)</p>
07	Zigzag	Impression Single impressions, plain spatula	Plain straight zigzag	Middle Nile Valley, Chad to Senegal (1st millennium BC/AD)	 <p>Source: Drawing Forschungsstelle Afrika</p>
07	Zigzag	Impression Rocker technique, straight spatula	Plain zigzag, straight	Ethiopia, Middle Nile Valley, Sahara, Chad to Senegal <i>Leiterband Complex,</i> <i>Lower Nubia, A-Group</i> <i>(3rd millennium BC)</i> <i>Rama, Yeha</i> <i>(late 2nd millennium BC)</i> <i>Meroe (3rd century BC– 4th</i> <i>century AD)</i>	 <p>Source: Drawing Forschungsstelle Afrika</p>



No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
07	Zigzag	Impression Rocker technique, straight or curved spatula	Plain zigzag, curved ("Wolftooth")	Ethiopia, Middle Nile Valley, Sahara, Chad to Senegal <i>Leiterband Complex</i> , <i>Lower Nubia, A-Group</i> (3rd millennium BC) <i>Rama, Yeha</i> (late 2nd millennium BC) <i>Meroe</i> (3rd century BC– 4th century AD)	 <p>Source: Drawing Forschungsstelle Afrika</p>
07	Zigzag	Impression Rocker technique, widely spaced	Dotted zigzag, straight	Nile Valley, Sahara (e.g. <i>Leiterband Complex</i>), Chad to Senegal <i>Khartoum Neolithic</i> , <i>C-Group, Meroitic</i> (c. 6th millennium BC–1st millennium AD)	 <p>Source: Drawing Forschungsstelle Afrika</p>
07	Zigzag	Impression Rocker technique, widely spaced	Dotted zigzag, curved ("dotted wolf-tooth")	Nile Valley, Sahara (e.g. <i>Leiterband Complex</i>), Chad to Senegal (c. 5th millennium BC–?)	 <p>Source: Drawing Forschungsstelle Afrika</p>
07	Zigzag	Impression Rocker technique with tool producing dashes (probably a cord-wrapped implement), narrow zigzag	Closely packed dotted zigzag ("soft" zigzag)	Eastern Sahara, Nile Valley (e.g. <i>Early Khartoum</i>) (Early-middle Holocene)	 <p>Tageru 84/34, Wadi Howar region, Sudan; Source: AAArC, Image: A. Heege (arachne.dainst.org/entity/6063399).</p>



No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
07	Zigzag	Impression Rocker technique, narrow zigzag	Dotted zigzag ("Narrow zigzag", densely packed)	Egypt, Elephantine <i>ELE3, Old Kingdom</i> (2nd Dyn., c. 2750 BC)	 <p>Elephantine, Egypt; Source: DAIK, Elephantine-Projekt: Z 3827</p>
07	Zigzag	Impression Comb, rocker technique	Dotted zigzag, closely/densely packed	Middle Nile Valley <i>Meroitic – post-Meroitic</i> (1st century BC–6th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (B. Briewig)</p>
07	Zigzag	Impression Comb, rocker technique	Dotted zigzag, closely/densely packed	Middle Nile Valley, (Eastern) Sahara <i>Middle Holocene</i>	 <p>Rahib 80/87; Wadi Howar, Sudan; (F. Jesse)</p>
08	Zigzag lines	Incision	Incised lines arranged to a coarse zigzag-pattern	Middle Nile Valley <i>Medieval to Islamic</i> (6th century AD–present)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (M. Wetendorf)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
08	Zigzag lines	Incision, combed	Incised zigzag	Ethiopia <i>Pre-Aksumite/Aksumite</i> (1st millennium BC/AD)	 <p>Ziban Adi, Ethiopia; Source: DAI, Wugro Project (P. Wolf)</p>
08	Zigzag lines	Impression Roulette, braided cord roulette		Niger Inland Delta and Adjacent regions (1st and 2nd millennium AD)	 <p>Jenné-Jeno, Mali; Source: Haour – Manning 2010 https://doi.org/10.5284/1000120 (BCR4, Image: S. McIntosh)</p>
08	Zigzag lines	Impression Rigid roulette	Carved wooden roulette	Nigeria <i>So (Sao)</i> (c. 16th/17th century AD)	 <p>Ngala, Nigeria; Source: Frobenius Institute (U. Nowotnick)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
09	Leiterband	<p>Impression</p> <p>Rocker stamp, implement with 3 teeth of different shape, return technique</p>  <p>Source: Drawing Forschungsstelle Afrika</p>	<p>Leiterband (incl. Halfmoon-Leiterband)</p>	<p>Wadi-Howar region, Ennedi, similar pattern also in Northern Mali</p> <p><i>Leiterband Complex</i></p> <p>(4th–3rd millennium BC)</p>	 <p>Djabarona 80/86, Wadi Howar, Sudan;</p> <p>Source: AAARc (arachne.dainst.org/entity/6064272)</p>
10	Hatches	<p>Incision</p> <p>Parallel vertical or oblique lines, crossed by oblique lines in a non-continuous pattern</p>	<p>Incised crossing pattern</p>	<p>Eastern Sudan</p> <p><i>Jebel Mokram Group</i></p> <p>(1800–500 BC)</p>	 <p>Mahal Teglinos, Sudan;</p> <p>Source: Manzo 2017: fig. 37</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
10	Hatches	Incision	<p><i>ELE7 A+B, 13th Dyn.–Second Intermediate Period</i> (c. 1700–1650 BC)</p>	<p>Egypt, Elephantine</p>	
			<p>Middle Nile Valley, Eastern and Western Desert</p> <p><i>Late/Middle-Nubian, „Pan-Grave“</i> (1700–1500 BC)</p>		
			<p>Source: DAIK, Elephantine-Projekt Z 4094</p>	<p>Elephantine, Egypt;</p>	
10	Hatches	Incision	<p>Western Sudan, Kordofan (date?)</p>	<p>Western Sudan, Kordofan (date?)</p>	
<p>Source: DAIK, Elephantine-Projekt Z 4046</p>	<p>Elephantine, Egypt;</p>				
	<p>Jebel al Ain, Sudan;</p>				
<p>Source: University of Muenster, InterLINK Project</p>					

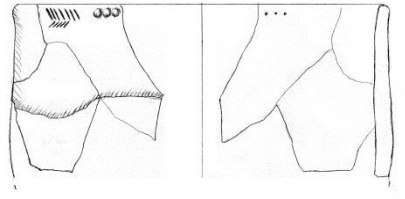


No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
11	Geometric pattern	Incision, can be colour filled	Triangles	Ethiopia, Yeha <i>Pre-Aksumite</i> (c. 1st millennium BC)	 <p data-bbox="1787 635 1966 659">Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
11	Geometric pattern	Impression Comb	Lozenges	Middle Nile Valley <i>Meroe</i> (3rd century BC–4th century AD)	 <p data-bbox="1765 962 1995 986">El Tuweina, Sudan; Source: University of Muenster, WADI Project (A. Lohwasser)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
11	Geometric pattern	Painted	Geometric	<p>Ethiopia, Middle Nile Valley, Chad</p> <p><i>Meroitic</i> (3rd century BC–4th century AD)</p> <p><i>Pre-Aksumite – Aksumite</i></p>	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
11	Geometric pattern	Painted		<p>Lower Nubia</p> <p><i>A-Group</i> (c. 3800–3100 BC)</p>	 <p>Aniba NN13, Lower Nubia, Egypt; Source: Ägyptisches Museum Leipzig, Objekt Leipzig 4341 (M. Wenzel)</p>

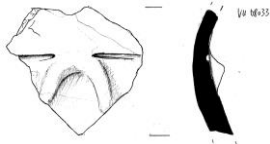

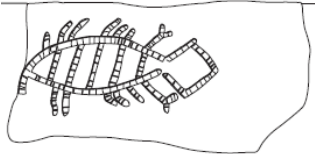
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
12	Complex geometric pattern	Impression, incision		<p>Eastern Sahara, southern Libyan Desert (<i>Handessi A</i>),</p> <p>Middle Nile Valley (<i>Kerma, C-Group</i>)</p> <p>also in e.g. Lake Chad area and Horn of Africa</p> <p>(3rd–2nd millennium BC)</p>	 <p>Wadi Shaw 82/31, Laqiya region, Sudan; Source: AAARc (arachne.dainst.org/entity/6064086)</p>
12	Complex geometric pattern	Sgraffito, pre-firing or post-firing incisions into red slipped ware		<p>Lake Chad area (9th–18th century AD), southern Air (9th century AD), possibly all oases from Lake Chad until Murzuk (Libya)</p>	 <p>Tié, Chad; Source: Frobenius Institute, Frankfurt/M (C. Magnavita)</p>
12	Complex geometric pattern	Incision, colour filled		<p>Lower Nubia</p> <p><i>C-Group</i></p> <p>(c. 2400–1550 BC)</p>	 <p>Aniba N402, Lower Nubia, Egypt; Source: Ägyptisches Museum Leipzig, Objekt Leipzig 4207 (M. Wenzel)</p>



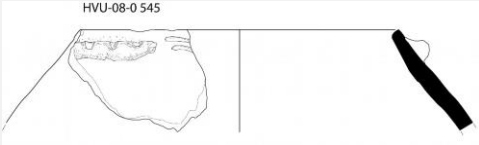
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
12	Complex geometric pattern	Impression (rolled tool/ roulette) and incision (incised lines)		Middle Nile Valley <i>Meroe</i> (3rd century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (B. Briewig)</p>
12	Complex geometric pattern	Impression Fine diagonal rim decor (comb impression), below larger triangles, lozenges, zigzag lines	Zankor group 3–6	Western Sudan <i>Kordofan, Zankor</i> (c. 500 BC–500 AD)	 <p>Zankor, Sudan; Source: DAI, Connecting Foodways Project, (S. Matthews)</p>
13	Single imprint/punctuation	Impression Single pronged tool	„Pseudo-stamp“	Middle Nile Valley <i>Meroe</i> (c. 2nd–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (B. Briewig)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
13	Single imprint/ punctuation			Bayuda, Wadi Abu Dom	 <p>Wadi Abu Dom, site 69, Sudan; Source: University of Muenster, WADI Project (A. Lohwasser)</p>
13	Single imprint/ punctuation	Impression Single pronged tool		Northern Ethiopia <i>Early-Aksumite</i> (c. 1st–4th century AD)	 <p>Yeha; Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
13	Single imprint/ punctuation	Impression Imprint with a single pronged tool from inside out (creating a knob on the outer surface)	„Bouton“	Wadi Howar- and Laqiya-Region (3rd–2nd millennium BC) Nubia <i>Kerma</i>	 <p>Wadi Shaw 82/52, Laqiya region, Sudan; Source: AAARc (arachne.dainst.org/entity/6064144)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
13	Single imprint/ punctuation	Impression Imprint with a single pronged tool from inside out (creating knob on the outer surface)	„Bouton“	Middle Nile Valley, 4th Cataract <i>Meroitic</i> (c. 1st–4th century AD) or intrusive?	 <p>Timmeriya, site 3-Q-33, Sudan; Source: SARS, Anglo-German Expedition to the Fourth Cataract (U. Nowotnick)</p>
13	Single imprint/ punctuation	Impression Imprint with a single pronged tool from inside out (creating knob on the outer surface)	„Knobbed ware“	Eastern Sudan, Butana (Kashm el Girba, KG 14) <i>Pre-Saroba-Phase</i> (6th millennium BC)	 <p>Site KG 14, Kassala region, Sudan; Source: (F. Jesse)</p>
13	Single imprint/ punctuation	Impression Stamp with motif (figural stamp)	Meroitic stamp decor	Middle Nile Valley <i>Meroitic</i> (c. 1st century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (S. Suliman; P. Wolf)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
14	Symbol	Incision (pre-firing)	Single symbols	Ethiopia, Yeha <i>Late-Aksumite, post-Aksumite</i>	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
14	Symbol	Incision Graffito, incised (often post-firing)	Single symbols	Middle Nile Valley <i>Meroe</i> (c. 2nd century BC–4th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (S. Büchner)</p>
14	Symbol	Painted, white on red (slip)		Middle Nile Valley <i>Late- und post-Meroitic</i> (c. 3rd–6th century AD)	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (I. Wagner)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
14	Symbol	Appliqué		<p>Ethiopia</p> <p><i>Pre-Aksumite, Aksumite</i> (1st millennium BC–1st millennium AD)</p>	 <p>Wuqro, Ethiopia; Source: DAI, Wuqro Projekt (U. Nowotnick)</p>  <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
15	Figural motif	Impression Comb		<p>Middle Nile Valley</p> <p><i>Meroe</i> (3rd century BC–4th century AD)</p>	 <p>Hamadab, Sudan; Source: DAI, Hamadab Project (I. Auer)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
15	Figural motif	Painted		<p>Middle Nile Valley</p> <p><i>Meroe</i></p> <p>(3rd century BC–4th century AD)</p>	 <p>Hamadab, Sudan;</p> <p>Source: DAI, Hamadab Project (P. Wolf)</p>
16	Application	Decorative moulding, plastic décor/application	Moulded ledges or lug handles	<p>Middle Nile Valley</p> <p><i>Kuschite to Islamic</i></p> <p>(9th century BC–present)</p>	 <p>Hamadab, Sudan;</p> <p>Source: DAI, Hamadab Project (B. Briewig)</p>  <p>Hamadab, Sudan;</p> <p>Source: DAI, Hamadab Project (M. Wetendorf)</p>


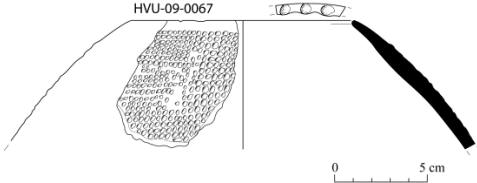

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
16	Application	Decorative moulding, plastic décor/application	Combination: comb imprints on lug handles (Pre-Aksumite) Rope imitation (Early-Aksumite, Pre-Aksumite?)	Northern Ethiopia <i>Pre-Aksumite</i> (c. 10th–5th century BC)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
16	Application	Decorative moulding, plastic décor/application	impressed modelled ledges	Sudan <i>Hagiz Group</i> (500 BC–500 AD) Wadi Abu Dom (Bayuda)	 <p>Site UA 29, Sudan; Source: Manzo 2017: fig. 48</p>
16	Application	Decorative moulding, plastic décor/application	impressed modelled ledges	Wadi Abu Dom (Bayuda)	 <p>Wadi Abu Dom, site 295, Sudan; Source: University of Muenster, WADI Project (A. Lohwasser)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
17	Rippled/ ribbed surface	Deep ripple burnishing with pebble, extensive	„Rippled ware“, Ripple polish	Egypt, Lower Nubia <i>Badari</i> (bifacial), <i>Early/classic A-Group</i> (exterior) (4th/3rd millennium BC) Laqiya-Region: “ <i>Desert A-Group</i> “	 <p data-bbox="1637 587 2123 703">Wadi Sahal 82/38, Laqiya region, Sudan; Source: AAARc (arachne.dainst.org/entity/6063534)</p>
17	Rippled/ ribbed surface	Fine horizontal ribbing on beakers/mugs of fine ware, by fast rotating potter’s wheel	<i>Ribbing</i> (horizontal wheel marks with decorative character)	Egypt and Kush <i>Late Period Egypt, Napatan</i> (c. 8th–4th century BC)	 <p data-bbox="1637 911 2123 1023">Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
17	Rippled/ ribbed surface	Deep parallel horizontal grooves (irregular)	Horizontal comb with decorative character	Northern Ethiopia, Yeha <i>Late-Aksumite</i> (c. 5th–10th century AD)	 <p data-bbox="1637 1305 2123 1417">Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>


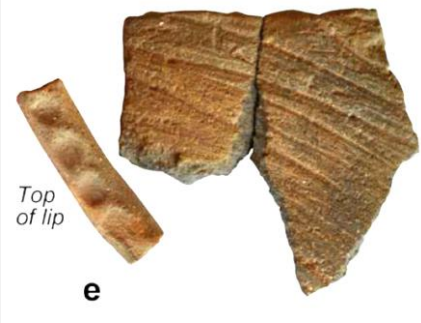
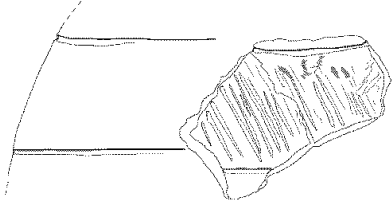
No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
17	Rippled/ ribbed surface	Impression, Comb (vertical, oblique/ diagonal)	Vertical combed grooves	Northern Ethiopia, Yeha <i>pre-Aksumite</i> (late 2nd millennium BC?)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
17	Rippled/ ribbed surface	Vertical or diagonal ribbing (long narrow parallel waves)	Channelling	Northern Ethiopia <i>Aksum</i> (c. 1st–10th century AD)	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
18	Textile texturing (Roulette, mat impression)	Impression Flexible roulette (creating dents)	Cord roulette	Lake Chad area and beyond (early 1st millennium AD and before until 16th–19th century AD) Middle Niger: twisted or braided cord, or composite cord roulettes (1st mill BC–2nd mill AD)	 <p>Tié, Chad; Source: Frobenius Institute, Frankfurt/M (C. Magnavita)</p>



No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
18	Textile texturing (Roulette, mat impression)	Impression Flexible roulette (creating knolls)	Strip roulette (Folded or braided strip)	Lake Chad area and beyond (9th–19th century AD) Middle Niger (1st millennium BC–2nd millennium AD)	 <p data-bbox="1765 456 1989 480">Garu Kime, Chad;</p> <p data-bbox="1637 504 2119 568">Source: Frobenius Institute, Frankfurt/M (C. Magnavita)</p>
			 <p data-bbox="1778 871 1980 895">Kéniéroba, Mali;</p> <p data-bbox="1608 919 2152 983">Source: Frobenius Institute, Project Borrowed Words and Shared Objects (S. F. Pedersen)</p>		
18	Textile texturing (Roulette, mat impression)	Impression Rigid roulette, e.g. by corncob, carved wooden roulette	Carved roulette	Upper Niger (2nd millennium AD) Kenya (recent)	 <p data-bbox="1778 1254 1980 1278">Kéniéroba, Mali;</p> <p data-bbox="1608 1302 2152 1366">Source: Frobenius Institute, Project Borrowed Words and Shared Objects (S. F. Pedersen)</p>




No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
18	Textile texturing (Roulette, mat impression)	Impression Mat, textile, basketry	Mat impression	Northern Ethiopia, Yeha <i>Late-Aksumite to post-Aksumite</i> (c. 5th–10th century AD)	 <p data-bbox="1765 464 1973 480">■ ■ ■ ■ ■</p> <p data-bbox="1783 496 1973 528">Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch, (O. Thiel)</p>
18	Textile texturing (Roulette, mat impression)	Impression Mat, textile, basketry	Mat impression	Middle Niger, Niger Bend (c. 1st–2nd millennium AD)	 <p data-bbox="1666 871 2085 975">Tongo Maare Diabal, Mali; Source: University College London (N. Gestrich)</p>
18	Textile texturing (Roulette, mat impression)	Impression Mat, textile, basketry	Mat impression	Western Sudan <i>Kordofan, Zankor</i> (c. 500 BC–500 AD)	 <p data-bbox="1615 1270 2141 1390">Zankor, Sudan; Source: DAI, Connecting Foodways Project, (S. Matthews)</p>



No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
18	Textile texturing (Roulette, mat impression)	Impression Mat, textile, basketry	Mat impression	Southern East-Sahara <i>Handessi-Phase</i> (Handessi B) (2nd millennium BC)	 <p data-bbox="1720 483 2040 512">Wadi Hariq S01/1, Sudan;</p> <p data-bbox="1778 531 1973 560">Source: AAARc</p> <p data-bbox="1666 564 2085 593">arachne.dainst.org/entity/6064210</p>
18	Textile texturing (Roulette, mat impression)	Impression Mat, textile, basketry	Mat impression	Middle Nile Valley <i>Kerma to Islamic</i> (3rd millennium BC–recent)	 <p data-bbox="1767 831 1984 860">Hamadab, Sudan;</p> <p data-bbox="1688 879 2063 940">Source: DAI, Hamadab Project (J. Weschenfelder)</p>  <p data-bbox="1771 1281 1984 1310">Hamadab, Sudan;</p> <p data-bbox="1615 1334 2141 1394">Source: DAI, Project Connecting Foodways, (S. Matthews)</p>

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
19	Roughening	<p>Impression</p> <p>Finger imprints at base (functionally relevant, partly with additional clay/slurry layer)</p>	<p>Roughening, base corrugation</p>	<p>Middle Nile Valley</p> <p><i>Kerma to Islamic</i> (3rd millennium BC–18th century AD)</p> <p>also Wadi Howar</p>	 <p>Hamadab, Sudan; Source: DAI, Project Connecting Foodways (S. Matthews)</p>
19	Roughening	<p>Impression</p> <p>Finger imprints at base (functionally relevant, partly with additional clay/slurry layer)</p>	<p>Roughening, base corrugation</p>	<p>Western Sudan</p> <p><i>Kordofan, Zankor</i> (c. 500 BC–500 AD)</p>	 <p>Zankor, Sudan; Source: DAI, Connecting Foodways Project, (S. Matthews)</p>
19	Roughening	<p>Impression</p> <p>Coarse irregular imprints at base (functionally relevant)</p>	<p>Roughening, base corrugation</p>	<p>Middle Nile Valley</p> <p><i>Kerma to Islamic</i> (3rd millennium BC–18th century AD)</p>	 <p>Hamadab, Sudan; Source: (U. Nowotnick)</p>

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
19	Roughening	Surface roughening		<p>Northern Ethiopia, Yeha</p> <p><i>Late Aksumite to post-Aksumite</i> (c. 5th–10th century AD)</p>	 <p>Yeha, Ethiopia; Source: DAI, Orient-Dept., Sanaa Branch (O. Thiel)</p>
20	Scraping	<p>Incision (scraping)</p> <p>Shallow parallel scrape or wipe marks across the body (scraping with comb, bone, wiping with grass)</p>	<p>„Scraped ware“</p>	<p>Eastern Sudan</p> <p><i>Butana Group</i> (4th-early 3rd millennium BC)</p> <p><i>Gash Group</i> (2500–1800 BC)</p> <p><i>Jebel Mokram Group</i> (1800–500 BC)</p> <p><i>Hagiz Group</i> (500 BC–500 AD)</p>	 <p>Site UA 113, Sudan; Source: Manzo 2017: fig. 15e (Butana Group)</p>
20	Scraping	Incision (scraping)		<p>Northern Ethiopia, Yeha, Rama</p> <p><i>Pre-Aksumite, Early Aksumite</i> (c. 10th century BC–3rd century AD)</p>	 <p>Rama, Ethiopia; Source: Universität Leipzig, Routes of Interaction: s40.21 (P. Collet/A. Uhlschmidt)</p>

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
					 <p data-bbox="1787 544 1973 576">Yeha, Ethiopia;</p> <p data-bbox="1630 592 2130 655">Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>
21	Pattern burnishing	Decorative smoothing of parts of the vessel surface	<p data-bbox="842 911 1061 943">Pattern burnishing</p> <p data-bbox="842 1070 1061 1102">Pattern smoothing</p>	<p data-bbox="1189 911 1487 943">Northern Ethiopia, Yeha</p> <p data-bbox="1256 1015 1420 1046"><i>Pre-Aksumite</i></p> <p data-bbox="1189 1070 1487 1102">(late 2nd millennium BC)</p>	 <p data-bbox="1787 1118 1973 1150">Yeha, Ethiopia;</p> <p data-bbox="1630 1190 2130 1254">Source: DAI, Orient-Dept., Sanaa Branch (I. Wagner)</p>

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
21	Pattern burnishing	Decorative smoothing/ slipping of parts of the vessel surface), can be combined with mat impressions		Middle Nile Valley <i>Post-Meroitic</i> (4th–6th century AD)	 <p data-bbox="1733 564 2018 595">Site ELG 13/25, Sudan; Source: University of Muenster, El Gol Project (A. Lohwasser).</p>
22	Notched rims	Impression Imprints on rim top (with fingertip, fingernail, stick, etc.)		Middle Nile Valley, Bayuda <i>Meroitic – Post-Meroitic</i> (1st–5th century AD)	 <p data-bbox="1771 991 1984 1021">Hamadab, Sudan; Source: DAI, Hamadab Project (B. Briewig)</p>
22	Notched rims	Impression Imprints on rim top (with fingertip, fingernail, stick, etc.)		Wadi Howar, Gala Abu Ahmed <i>Napatan</i> (1st millennium BC)	 <p data-bbox="1648 1362 2107 1425">Gala Abu Ahmed fortress (site 84/95), Wadi Howar, Sudan; Source: AAARc, Image: F. Jesse (arachne.dainst.org/entity/5046358)</p>

No	EFFECT	TECHNIQUE	NAME	TIME/SPACE	ILLUSTRATION
22	Notched rims	<p>Impression</p> <p>Imprints on rim top (with fingertip, fingernail, stick, etc.)</p>		<p>Ethiopia</p> <p><i>Pre-Aksumite</i></p> <p>(c. 10th–4th century BC)</p>	 <p>Addi Akaweh, Ethiopia; Source: DAI Orient-Abteilung, Wuqro (K. Pfeiffer)</p>
22	Notched rims	<p>Impression</p> <p>Imprints on rim top (with fingertip, fingernail, stick, etc.)</p>		<p>Eastern Sudan</p> <p><i>Butana Group, Gash Group</i></p> <p>(4th–1st millennium BC)</p>	 <p>Mahal Teglinos, Sudan; Source: Manzo 2017: fig. 22.b, g, h (Gash Group)</p>