## **List of Figures**

Fig. 1.1	Paithan and other Early Historic sites mentioned in the text —— 7				
Fig. 1.2 Fig. 1.3	Paithan and surrounding area —— <b>7</b> Topographic map of Paithan with contours at 1-m intervals. The location of the section shown in Fig. 1.7 is also				
5	shown —8				
Fig. 1.4	Map of Paithan showing key landmarks, the ASI protected area and the location of the old town —— 8				
Fig. 1.5	Satellite image of Paithan (Google Earth) —— 9				
Fig. 1.6	A view of the ASI protected area at Paithan, looking north from the south bank of the Godavari ——9				
Fig. 1.7	Section through the ASI protected area and the main part of the old town —— 10				
Fig. 4.1	Plan showing the central mound at Paithan and the location of the main trenches. Note that the trenches are not				
	shown to scale in this plan — 24				
Fig. 4.2	Satellite image of the ASI protected area showing the location of the trenches —— 24				
Fig. 4.3	View of Trench A from the south-west at the end of the 1998 season — 25				
Fig. 4.4	Yusuf's photograph of the 1937 excavations showing the two brick temples from the south (from Yusuf 1938: pl. v; 1939: pl. XVIIb) —— 25				
Fig. 4.5	Plan of Trench A showing the location of test pits and excavation areas —— 26				
Fig. 4.6	General view of the temples from the north at the end of the 1998 season —— 28				
Fig. 4.7	Plan of the North Temple showing the locations of the main walls —— 29				
Fig. 4.8	The North Temple from the north-east —— 29				
Fig. 4.9	Dimensions of the North Temple —— 30				
Fig. 4.10	Phases of the North Temple —— 30				
Fig. 4.11	The west end of the North Temple from the west —— 31				
Fig. 4.12	Schematic section through the <i>garbhagriha</i> of the North Temple from the north —— 32				
Fig. 4.13	The Phase I structure of the North Temple showing wall 554 and the simple 'Ramtek-like' moulding exposed in a				
	post-Medieval pit cut —— 33				
Fig. 4.14	The <i>garbhagriha</i> of the North Temple after excavation to the lowest foundation fill of boulders. Note the vertical incised lines in the middle of each wall beneath the level of the blackboard ——33				
Fig. 4.15	Isometric reconstruction of Phases I, II and III of the North Temple from the south-west —— 34				
Fig. 4.16	Elevation of walls 555 and 556 —— 34				
Fig. 4.17	The robbing on the north side of the North Temple from the east —— 34				
Fig. 4.18	Details of plinth mouldings from various walls from both the North and South Temples —— 35				
Fig. 4.19	East-west section through wall 514 showing extra face 559/1213 —— 36				
Fig. 4.20	Sketch of the joint between walls 556 and 557 at the southwest corner of the North Temple from the south-west. Arrows				
F1 6.04	indicate where a brick abuts another —— 37				
Fig. 4.21	The joint between the Phase II and Phase III brickwork of the North Temple, looking west in the southern half of the mandapa, with wall 558 to the immediate right ——38				
Fig. 4.22	Test Pit 9 sections. (A) Composite section across the whole test pit and the <i>mandapa</i> of the North Temple looking west. (B)				
115. 7.22	East-west section against wall 556 below the southern part of wall 558 where it crosses the test pit. (C) The western section				
	of the test pit to the north of the Phase I structure showing the edge of foundation cut 1171 —— 38				
Fig. 4.23	Feature 1137, the earliest evidence for a possible shrine in the west end of the mandapa of the North Temple —— 39				
Fig. 4.24	North Temple, showing the remains of a possible simple shrine 983 against the western wall of the Phase III				
	mandapa —— 39				
Fig. 4.25	Photo of the rectangular depression in layer 551 that might indicate the location of a shrine —— 40				
Fig. 4.26	Wall 383/544 of Phase IV in the North Temple before the excavation of Test Pit 9 —— 40				
Fig. 4.27	Schematic section/view of the <i>garbhagriha</i> wall of the North Temple looking north showing the extent of later rebuild 971 —— 41				
Fig. 4.28	The garbhagriha of the North Temple from the west showing possible evidence of late use —— 42				
Fig. 4.29	General view of the South Temple from the southeast during excavation —— 42				
Fig. 4.30	Plan of the South Temple showing the location of the main walls —— 45				
Fig. 4.31	Dimension plan of the South Temple —— 45				
Fig. 4.32	Phases of the South Temple —— 46				
Fig. 4.33	West-facing composite section across the South Temple showing foundations —— 47				
Fig. 4.34	View of the eastern section of Test Pit 5 across the interior of the South Temple looking south-east showing the successive foundation fills —— 47				
Fig. 4.35	Interior of the South Temple during excavation of Test of the South Temple looking south-east showing the successive Pit 5				
FI 4 5 4	showing a level of foundation fill consisting of small boulders —— 47				
Fig. 4.36	Composite east-west section through the west end of the South Temple looking north —— 48				

	T			
Fig. 4.37	The wall between the <i>mandapa</i> and the <i>garbhagriha</i> in the South Temple looking west during the excavation of Test Pit 5. The Phase I gap in this wall can be clearly seen below the Phase II wall —— 48			
Fig. 4.38	Western section of Test Pit 5 across the South Temple in front of the wall between the <i>garbhagriha</i> and the <i>mandapa</i> —— 49			
Fig. 4.39	Cross-section of walls 1247 and 1224 South Temple —— 49			
Fig. 4.40	View of the corner formed by walls 1240/1251 and 1224 in the southwest corner of Test Pit 5 looking southwest. The arrows			
	show the boundaries between the upper and lower walls. The inter-bonding between walls 1240 and 1251 is clearly visible just to the right of the corner and the difference in the quality of the brickwork of the two walls is also clear ——49			
Fig. 4.41	Remains of mouldings in wall 1240 at the eastern end of the South Temple looking west —— 50			
Fig. 4.42	View showing the eastern end of the south wall of the South Temple looking north (see Fig. 4.46 for a key to			
	wall numbers) —— 50			
Fig. 4.43	South-facing section of Test Pit 8 showing the sequence of floors that abut the eastern face of the Phase I – III walls of the			
	South Temple —— 51			
Fig. 4.44	Elevation of the western wall of the South Temple above the eastern section of Test Pit 1 showing the fills of the			
	temple foundations —— 51			
Fig. 4.45	The robbed-out wall 352 at the east end of the South Temple looking south —— 52			
Fig. 4.46	Elevation of the southern face of the southern wall of the South Temple (wall 560) —— 52			
Fig. 4.47	Foundations of the Early Medieval perimeter wall 699 in the South Area of Trench A looking north. The stones of wall 691 ar			
· ·	visible immediately to the west. At the top of the photograph, the foundations of 699 turn to butt the south-west corner of			
	the South Temple —— 54			
Fig. 4.48	Trench A showing the remains of the possible late enclosure walls 578/699 and 691 and associated features to the			
	south of the South Temple and feature 617 to the west of the North Temple —— 55			
Fig. 4.49	A composite section through the two temples and their foundations —— 56			
Fig. 4.50	West-facing section of Test Pit 3 showing the foundation cuts for both buildings —— 59			
Fig. 4.51	South-facing section of Test Pit 1, Trench A, showing the foundation cut for the South Temple —— 60			
Fig. 4.52	Plinth mouldings from Ramtek: (a) Rudra-Narasimha temple; (b) Kevla-Narasimha temple; (c) Bhogarama temple			
J	(after Meister <i>et al.</i> 1988: fig. 40) —— <b>61</b>			
Fig. 4.53	Plinth mouldings on the main temple at Chejerla (from Sarma 1982: fig. 18) —— <b>61</b>			
Fig. 4.54	Eastern section of Test Pit 1 showing the foundation fills under the west end of the South Temple —— 63			
Fig. 4.55	South-facing section, Test Pit 6 — 66			
Fig. 4.56	View of wall 360, built from re-used stone architectural fragments above wall 352 at the east end of the South Temple from			
· ·	the north-west —— 74			
Fig. 4.57	Drawing of the north face of the north wall of the South Temple with an interpretive overlay —— 74			
Fig. 5.1	Trench B, view of the south and east sections of the trench at the end of excavation —— 82			
Fig. 5.2	Trench B showing wall 401 and related pillar bases to the west —— 82			
Fig. 5.3	Trench B, north-facing section —— 83			
Fig. 5.4	Trench B, west-facing section —— 83			
Fig. 5.5	Trench C section (155/450, south-facing) —— <b>85</b>			
Fig. 5.6	Trench D1, east-facing section —— 86			
Fig. 5.7	Trench D2, south-facing section, as dug —— 87			
Fig. 5.8	Trench F, east-facing section —— 88			
Fig. 5.9	Trench F, view of the west-facing section —— 88			
Fig. 6.1	Graph showing the percentage of Type 1 through the lower parts of the sequences from Trenches B, D1 and D2 (sherd count			
	as % of total sherd assemblage) —— 94			
Fig. 7.1	Northern Black Polished ware sherds (NBP) (scale in cm) —— 106			
Fig. 7.2	Classes NBP, RPW, SLIP and CBW —— 107			
Fig. 7.3	Red Polished ware sherds (RPW) —— 110			
Fig. 7.4	Chinese Blue and White porcelain sherds (CBW) —— 110			
Fig. 7.5	Blue and White Frit sherds (PERS) —— 111			
Fig. 7.6	Slip-painted ware sherds (SLIP) —— 111			
Fig. 7.7	White and Red Painted ware sherds (WARP) —— 111			
Fig. 7.8	Types 1 to 7 —— 117			
Fig. 7.9	Types 8 to 11 —— <b>120</b>			
Fig. 7.10	Types 12 to 15 —— 121			
Fig. 7.11	Types 16 to 22 —— <b>123</b>			
Fig. 7.12	Types 23 to 27 —— <b>126</b>			
Fig. 7.13	Types 29 to 33 —— <b>128</b>			
Fig. 7.14	Types 34 to 39 —— <b>130</b>			
Fig. 7.15	Types 40 to 44 —— 132			

```
Fig. 7.16
                Types 45 to 48 --- 134
                Types 49 to 51 —— 135
Fig. 7.17
Fig. 7.18
                Types 52 to 58 —— 138
Fig. 7.19
                Ranked analysis of the density of sherds per metre cubed from 15 period-assemblages from across the site —— 150
Fig. 7.20
                Sherds with incised marks: P863, P1766, P2552 and sherd P2553, Roman amphora ——151
Fig. 7.21
                Unique sherds, Periods 1 to 3 ---- 153
Fig. 7.22
                Unique sherds, Periods 3 and 4 —— 154
Fig. 7.23
                Occurrence profiles of Types 1, 2, 3, 4, 7 and 8. The histograms show occurrence as a percentage of the total period
                rim-sherd assemblages. Note that vertical scales differ on the histograms —— 155
Fig. 7.24
                Occurrence profiles of Types 9, 10, 12, 14, 16, 20, 24 and 25. The histograms show occurrence as a percentage of the total
                period rim-sherd assemblages. Note that vertical scales differ on the histograms —— 156
Fig. 7.25
                Occurrence profiles of Types 26, 27, 30, 32, 33, 38, 41 and 51. The histograms show occurrence as a percentage of the total
                period rim-sherd assemblages. Note that vertical scales differ on the histograms —— 157
Fig. 8.1
                Microliths --- 159
Fig. 8.2
                Beads of different materials --- 161
Fig. 8.3
                Terracotta beads — 162
Fig. 8.4
                Beads of different materials --- 165
Fig. 8.5
                Bangles of different materials —— 172
Fig. 8.6
                Copper objects — 173
                Ear-studs, pendants and other terracotta objects —— 181
Fig. 8.7
Fig. 8.8
                Bone and ivory objects ---- 183
Fig. 8.9
                Iron objects --- 186
                Bone, kaolin and porcelain objects ---- 195
Fig. 8.10
Fig. 8.11
                Stone objects — 197
Fig. 8.12
                Small jars, crucibles and lamps --- 200
Fig. 8.13
                Animal terracotta figurines -
Fig. 8.14
                Kaolin figurines — 208
                Terracotta figurines —— 209
Fig. 8.15
                Human and animal terracotta figurines —— 210
Fig. 8.16
Fig. 8.17
                Stone sculpture 234 — 211
Fig. 8.18
                Stone sculpture 234 — 212
Fig. 8.19
                Glass fragments - 214
Fig. 9.1
                Coins 1 (574), 3 (505), 5 (537), 2 (504), 4 (506) and 6 (298) — 216
Fig. 9.2
                Coins 9 (337), 12 (535), 14 (538), 52 (493), 13 (648) and 25 (379) —— 218
Fig. 9.3
                Coins 30 (740), 18 (02), 15 (724), 33 (820), 17 (745) and 19 (188) —— 220
Fig. 9.4
                Coins 22 (46), 21 (55), 29 (492), 20 (57), 24 (390) and 28 (829) —
Fig. 9.5
                Coins 31 (462), 34 (496), 55 (187), 32 (120), 35 (29) and 56 (56) — 224
Fig. 9.6
                Rank analysis of the ratio of coins to sherds from a sample of period-sequences from across the site. The two Period
                3-temple period-sequences (TP5-3T and GGN-3T) are at the lower end of the range — 230
                Coins from the Balasaheb Patil Collection (1-7) --- 236
Fig. 11.1
Fig. 11.2
                Coins from the Balasaheb Patil Collection (8-11) --- 237
Fig. 11.3
                Coins from the Balasaheb Patil Collection (12-13) --- 237
Fig. 11.4
                Coins from the Balasaheb Patil Collection (14-18) --- 238
Fig. 11.5
                Coin moulds from the Balasaheb Patil Collection (1-3) --- 239
Fig. 11.6
                Pottery and terracotta objects from the Balasaheb Patil Collection (1-9) --- 240
Fig. 11.7
                Figurines from Paithan (from Morwanchikar 1985: pls X-XIII) --- 241
Fig. 12.1
                Relative frequency of major crop groups --- 246
Fig. 12.2
                Ubiquity of major crop groups and selected subdivisions of millets — 247
Fig. 12.3
                Relative frequency of major crop groups -
                                                         — 252
Fig. 12.4
                Comparative diversity indices — 252
                Scanning electron micrograph of charred Paspalum scrobiculatum (kodo millet) from Paithan; dorsal view (left) and
Fig. 12.5
                ventral view (right) --- 254
Fig. 12.6
                Rice spikelet base from context 721; lateral view (left) and ventral view (right). Notice the indented scar indicative of
                domesticated/non-shattering morphotype --- 255
Fig. 12.7
                Comparison of the frequency of wheat and barley with other taxa —— 258
Fig. 12.8
                Grains of barley (Hordeum vulgare), hulled variety, from context 721; ventral view (above) and dorsal view (below) —— 259
Fig. 12.9
                Grains of free-threshing wheat (Triticum aestivun/durum) from context 1036; dorsal view ---- 259
Fig. 12.10
                Grain of emmer wheat type (Triticum diococcum) from context 919; dorsal view (left) and lateral view (right) ----- 259
```

Fig. 12.11	Pearl millet grain ( <i>Pennisetum glaucum</i> ), narrow grain type, from context 930; dorsal view (left) and dorsal view (right) —— <b>260</b>				
Fig. 12.12	Sorghum (Sorghum bicolor) of race bicolor type from context 930; dorsal view (right). Sorghum of race durra type				
	from context 1092; dorsal view (right) —— 260				
Fig. 12.13	Finger millet ( <i>Eleusine coracana</i> ), fragmented, from context 721; basal view of embryo. Approximately half of the grain i preserved —— <b>261</b>				
Fig. 12.14	Grain of common broomcorn millet (Panicum miliaceum) from context 1128; dorsal view —— 261				
Fig. 12.15	Grain of common foxtail millet (Setaria italica) from context 1135; dorsal view (left) and ventral view (right), both with adhering lemma. Notice on ventral view the indentation of charred away hilum which is relatively short compared to				
Fig. 12.16	dorsal view (right). Notice (left) faint traces of hilum, which is relatively long compared to overall grain length				
Fig. 12.17	(1/4-1/3 length) —— 263 Relative frequency of pulses —— 263				
Fig. 12.18	Interior view of the cotyledon of mung bean ( <i>Vigna radiata</i> ) from context 1150. Notice the relatively long plumule —— <b>265</b>				
Fig. 12.19	Interior view of the cotyledon of urd bean ( <i>Vigna mungo</i> ) from context 1150. Notice the shorter, half-seed-length plumule —— 265				
Fig. 12.20	Comparison of measurements of Paithan Vigna with samples from Neolithic contexts in southern India —— 266				
Fig. 12.21	Moth beans (Vigna aconitifolia) from context 1136 —— 266				
Fig. 12.22	Horsegram (Macrotyloma uniflorum) from context 467; complete seed (left) and interior of split cotyledon (right) —— 266				
Fig. 12.23	Pigeonpea (Cajanus cajan) from context 1036; lateral view (left) and interior view of split cotyledon (right) —— 267				
Fig. 12.24	An example of chickpea ( <i>Cicer arietinum</i> ); ventral view —— 268				
Fig. 12.25	An example of lentil ( <i>Lens culinaris</i> ); lateral view —— <b>268</b>				
Fig. 12.26	Seed of mustard ( <i>Brassica cf. juncea</i> ) from context 985, with part of seed coat cell pattern visible —— <b>268</b>				
Fig. 12.27	Seeds of fig type ( <i>Ficus</i> sp.) from context 619 — <b>269</b>				
Fig. 12.28	Seed of mouse cucumber ( <i>Melothria cf. heterophylla</i> , family Cucurbitaceae) from context 1116 — 269				
Fig. 12.29	Sesame seed (Sesamum indicum) from context 930, whole seed (left) and detail of seed coat (right) —— 269				
Fig. 12.30 Fig. 12.31	Ubiquity of selected crop types and weeds —— 270  Cotton (Glossypium sp.) remains from context 930, including fragmented seed (left), cross-section of seed coat				
_	(centre) and funicular cap from inferior seed (right) —— 270				
Fig. 12.32	The distribution of archaeological finds of cotton and flax seed in South Asia, indicated by broad time horizons —— 272				
Fig. 12.33	The spread of cotton beyond South Asia: finds of seeds and textiles —— 273				
Fig. 12.34	Safflower (Carthamus tinctorius) from context 841—274				
Fig. 12.35	Lone specimen, poorly preserved, of possible hemp (cf. <i>Cannabis sativa</i> ) from context 1128 —— 275				
Fig. 12.36	Weedy grass, wrinklegrass ( <i>Ischaemum rugosum</i> ) from context 1116, dorsal view —— <b>276</b>				
Fig. 12.37 Fig. 12.38	Weedy grass, Indian goosegrass ( <i>Eleusine indica</i> ) from context 721, dorsal view —— <b>276</b> Weedy grass, fingergrass ( <i>Digitaria</i> sp.) from context 1116, dorsal view —— <b>276</b>				
Fig. 12.39	Two species of carpetweeds (Aizooaceae) from context 933: <i>Trianthema portulacastrum</i> (above) and <i>Trianthema triquetra</i> (below), lateral views —— <b>278</b>				
Fig. 12.40	Buttonweed mericarp ( <i>Borreira/Spermacoce</i> ) from context 1116: dorsal (left) and ventral view (right) —— <b>279</b>				
Fig. 12.41	Indeterminate weed type of Caryophyllaceae/Molluginaceae type from context 721, lateral view —— 279				
Fig. 12.42	Weedy mallow type seed (Malvaceae, cf. malva), lateral view —— 279				
Fig. 12.43	Weedy dayflower seed (Commelina cf. benghalensis) from context 486, dorsal view —— 279				
Fig. 13.1	Phalanges of blackbuck ( <i>Antilope cervicapra</i> ) showing the characteristic etching caused by the digestive acids of dogs (top) and holes caused by gnawing (both specimens). The specimens were identified to species by Dr P. K. Thomas —— 282				
Fig. 13.2	Fragment of mandible of <i>Crocodilus palustris</i> , identified by Dr P. K. Thomas —— 284				
Fig. 13.3	Fragments of scute of turtle ( <i>Trionyx gangeticus</i> ) cut with a knife —— 285				
Fig. 13.4	Minimum Animal Units (MAU) of the main domestic taxa at Paithan, divided by layer and expressed as percentages of the layer total (see text for the method of deriving the MAU) —— 286				
Fig. 13.5	Diagram of the skeleton of an artiodactyl, showing the various bones —— 287				
Fig. 13.6	Metacarpal shaft fragment of sheep or goat, showing two heavy chop marks — 288				
Fig. 14.1	A schematic outline of the building materials used in the Paithan sequence and at eight other Early Historic sites in the region —— 301				
Fig. 14.2	Drawing of a shrine in a relief from Amaravati (from Coomaraswamy 1930: fig. 33) —— 305				
Fig. 14.3	Numbers of Indian livestock (1,000s) from the 17th Livestock Census of 2003 (source: FAO 2001–2003) —— 311				
Fig. 14.4	A histogram of coins from Bhokardan, Maheshwar and Nevasa redated by S. Bandhare showing the numbers of coins				
Fig. 15.1	deposited per year (from Bhandare and Kennet forthcoming) —— <b>318</b> Eran (Dist. Vidisha, Madhya Pradesh). Inscribed memorial stone of Goparāja, dated AD 510–11 —— <b>326</b>				
5	Eran (2126 Fraisina, maanya i raacsin). Miscribea memoriat stone or doparaja, datea AD 310-11 320				

Fig. 15.2	Salkanpur (Dist. Sehore, Madhya Pradesh). Hero-stone memorial with a pinnacle in the shape of a temple spire, with a relie sculpture of warriors in battle below, circa 12th century —— 327				
Fig. 15.3	Maharashtra, region of ancient Vidarbha, showing the distribution of key copper-plate charters of the				
•	Vakataka period —— 330				
Fig. 15.4	Maharashtra, region of ancient Vidarbha, showing the distribution of known archaeological sites and coin finds —— 332				
Fig. 15.5	Mahurjhari (Dist. Nagpur, Maharashtra). Raw material for carnelian from ancient quarry —— 333				
Fig. 15.6	Mahurjhari (Dist. Nagpur, Maharashtra). Carnelian bead fragments in fields at village —— 333				
Fig. 15.7	Mahurjhari (Dist. Nagpur, Maharashtra) (?). Engraved carnelian with a Buddhist inscription in Vakataka-style script read apramāda with corresponding impression. Probably made at Mahurjhari. British Museum, 1892, 1103. 126, see SIDDHAIN01102 —— 333				
Fig. 15.8	Chammak (Maharashtra). Copper-plate charter of Pravarasena II with seal of the king and a paper note by J. F. Fleet. British Library Ind Ch 16, see SIDDHAM OB00149 —— 334				