

Code sheet for Crucible Database, Ban Chiang Project

All measurements are in centimeters unless otherwise noted.

Serial_number = unique numerical designator for each artifact

Artifact_ID: excavation abbreviation followed by the small find number/bag number.

For example, BC 0603/0471 = Ban Chiang 1974 excavation; small find number=603; bag number = 471

Site = site where material was recovered

BAN CHIANG BC = 1974 excavation at Ban Chiang by Penn/Thai Fine Arts Department. Excavation abbreviation = BC.

BAN CHIANG BCES = 1975 excavation at Ban Chiang by Penn/Thai Fine Arts Department. Excavation abbreviation = BCES.

BAN PHAK TOP = 1975 excavation by Penn (William Schauffler). Excavation abbreviation = BPT.

BAN TONG = 1975 excavation by Penn (William Schauffler). Excavation abbreviation = BT.

DON KLANG = 1975 excavation by Penn (William Schauffler). Excavation abbreviation = DK.

Small_find_number = small find number assigned in the field or lab

Bag_number = artifact bag number assigned in the field

Artifact_class = small find class

CRUCIBLES: small bowls of thick ceramic used to smelt ore or melt metal in order to refine the metal or to prepare it for casting in a mold.

Provenience

Period = regional period

LP-Protohistoric

LP = Late Period

MP-LP = Middle to Late Period

MP = Middle Period

EP-MP = Early to Middle Period

EP = Early Period

Subperiod = the division of the Early Period

upper

lower

Burial_phase = varies by site

Ban Chiang BC and Ban Chiang BCES

X
 IX
 VIII
 VIIIb
 VIIa
 VI
 Vc
 Vb
 Va
 IVc
 IVb
 IVa
 IIIb
 IIIa
 IIc
 IIb
 IIa
 I
 Ban Tong
 2
 1
 Don Klang
 4
 3

Context = the kind of deposit from which the artifact was recovered during the excavation.
 White defines four general categories of context for artifacts in the four sites: (1) deliberately placed in burials; artifacts are called grave goods; (2) near skeletons or in grave fill, but not necessarily grave goods; artifacts are called burial-associated materials; (3) in features of various sorts; and (4) in the general soil matrix.

grave good
 burial-associated
 feature
 feature pdb = possible disturbed burial
 general soil matrix

Level = cultural level by excavation locale

BC	BCES	BPT	BT	DK
13	04D	12	09	05
12	04C	11	08B	04B
11	04B	10	08A	04A
10	04A	09	07B	03C
09	03I	08B	07A	03B
08	03H	08A	06	03A
07	03G	07	05	02/03
06	03F	06	04	02C

05	03E	05	03	02B
04	03D	04	03/02	02A
03	03C	03	02B	02/01
02	03B	02	02A	01C
01	03A	01	01	01B
	02H			01A
	02G			
	02F			
	02E			
	02D			
	02C			
	02B			
	02A			
	01A			

Square = excavation square

Quadrant = quadrant of excavation square (Sections are also noted in this field.)

Ban Chiang BC and BCES

None
 ALL QUADS
 NEQ
 NEQ SEQ
 NEQ NWQ
 NWQ
 NWQ NEQ
 NWQ SWQ
 SEQ
 SEQ SWQ
 SWQ

Ban Phak Top

None
 SWQ
 SEQ
 NWQ
 NEQ
 North section

Ban Tong

None
 SWQ
 SEQ
 NWQ
 NEQ SEQ

NEQ

Don Klang

WQ

SQ WQ

NQ SQ EQ

NQ EQ

NQ

EQ

Layer = excavation layer

Burial_number = site/locale followed by assigned burial number

Burial_association = vertical relationship of grave good to skeleton

Unclear

Beside skeleton

Beneath skeleton

Above skeleton

Worn by deceased

Found mixed with bones

Location = horizontal relationship of grave good to skeleton

Left

Right

Center

Beyond head

Beyond feet

Body_part = the part of the body upon which or near which the artifact was found

Feature_number = feature number, assigned in the field

Feature_type = feature type/description

cache

cache of mixed objects

cache—pot

clump

clump of shell

mixed artifact clump

clusters

cluster of animal bone

cluster of miscellaneous human bone

mixed artifact cluster (with crucible)

sherd cluster

discrete finds

discrete human bone

discrete small find
laterite lump
stone

disturbance
disturbance—mixed
insect disturbance

ditch

hearth

pits
large pit
medium pit
small pit

possible disturbed burial

post hole

scatters
scatter of mixed objects
scatter of sherds and bone

soil
sediment feature
soil feature

Artifact Status

Completeness = how much of the artifact is present

unknown
intact
whole, reconstructed
greater than half
less than half
fragmentary
unclear

Lab_number = number assigned by the petrologist

Lab_Work = Additional lab work performed in addition to the microscopic examination performed on every crucible

blank = no additional work
thin section analysis

PIXE on prills = PIXE spectroscopy performed on metal prills found on or within crucible fabric

Artifact Description

Number_of_pieces = number of pieces, recorded in the 1970s

Weight_gms = weight

Maximum_length = maximum length

Maximum_width = maximum width, taken perpendicular to the maximum length

Thickness = maximum thickness

Intact_length = length of intact crucible

Intact_width = width of intact crucible

Intact_height = height of intact crucible

Interior_depth = depth of interior

Bottom_thickness = thickness of fabric at base

Total_volume_ml = total fluid volume in ml.

Maximum_metal_capacity = maximum weight in grams of fluid copper that the copper crucible can contain. Calculated by multiplying the density of liquid copper (7.9g/ml, ref) by the total volume of crucible.

Parts_present = parts of the crucible that were recovered; spout; body; rim; or combinations of these three.

Rim_shape = tapered or rounded (see Figures 6.1 and 6.2)

Vitrification =

none

present

Lagging =

none

present.

Red_stain = presence or absence of stain

Red_stain_location = location of red stain

none

on body only, lagging present

on body only, no lagging present

on body, on lagging

on body, under lagging

on lagging only

Red_stain_value = the intensity of the red color

- none
- very light
- light
- dark
- very dark

Red_stain_extent

- none
- band
- entire interior
- patches on interior

Red_stain_comment = penetration into crucible fabric; exterior surface description if present; presence of glassy spots; width of band; any variations in color, etc.

Number_of_uses = minimum number of times crucible was used to process metal (based on layers of lagging and red stain).

Temper = material mixed with the clay

- rice chaff
- rice chaff & fired clay/grog
- rice chaff & organic
- rice chaff & sand-quartz
- rice chaff & slag
- fired clay/grog
- sand-quartz
- organic
- missing

Dross = the mineral layer that forms on the surface of a molten metal and sometimes transfers to the crucible during pouring.

- missing
- copper minerals

Slag_Glass = missing or present

Prills = identification of small bits of metal trapped in the fabric, dross, or lagging

- copper/bronze
- copper/bronze & gray metal
- gray metal
- none found
- not searched

Comments