

**CATALOGUE OF THE DATASET OF TRACE ELEMENT ANALYSES  
OF BELL BEAKER METAL FINDS**

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 27 LABNo: 00104

FIND\_PLACE: Barbing, Lkr. Regensburg

SITE: Grab 3

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 435 LATITUDE: 49,000 LONGITUDE: 12,200

AM: OES MG: 44 CU: 0,000

SN: 0,220 ng\_LogSN: 0,65758 PB: 2,500 ng\_LogPB: -0,39794

AS: 0,080 ng\_LogAS: 1,09691 SB: 0,250 ng\_LogSB: 0,60206

AG: 0,400 ng\_LogAG: 0,39794 NI: 0,700 ng\_LogNI: 0,15490

BI: 0,060 ng\_LogBI: 1,22185 FE: 0,060 ng\_LogFE: 1,22185

DOUBLEANALAYSES:

INVENTORYNo: Regensburg 366

PCA\_factor\_1: -0,6480500 PCA\_factor\_2: -2,1763600

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 7 CLUSTER\_No\_III: 19

CLUSTER\_No\_IV 58 Randomised: 1,24

Metal\_groups: Arsenic-lead-copper

LITERATURE: Heyd 2000b, 67.

COMMENT:

ANo: 72 LABNo: 00406

FIND\_PLACE: Dillingen a. d. Donau, 'Reitweg', Lkr. Dillingen

SITE: Hockergrab

FEATURE: Grave NAT: D DIST: BA AREA: 62  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 1323 LATITUDE: 48,550 LONGITUDE: 10,500

AM: OES MG: 62 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,110 ng\_LogPB: 0,95861

AS: 0,080 ng\_LogAS: 1,09691 SB: 0,450 ng\_LogSB: 0,34679

AG: 0,080 ng\_LogAG: 1,09691 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,010 ng\_LogBI: 2,00000 FE: 0,200 ng\_LogFE: 0,69897

DOUBLEANALAYSES:

INVENTORYNo: Dillingen

PCA\_factor\_1: 0,5442000 PCA\_factor\_2: -1,8745900

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40 Randomised: -0,83

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Heyd 2000b, 69.

COMMENT:

ANo: 174 LABNo: 00114

FIND\_PLACE: Luckenpaint-Thalmassing, 'Geiergucken', Lkr. Regensburg

SITE: Hockergrab

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged, small

PLACENo: 3089 LATITUDE: 48,900 LONGITUDE: 12,150

AM: OES MG: 30 CU: 0,000

SN: 0,200 ng\_LogSN: 0,69897 PB: 1,200 ng\_LogPB: -0,07918

AS: 0,450 ng\_LogAS: 0,34679 SB: 0,100 ng\_LogSB: 1,00000

AG: 0,250 ng\_LogAG: 0,60206 NI: 0,200 ng\_LogNI: 0,69897

BI: 0,040 ng\_LogBI: 1,39794 FE: 0,070 ng\_LogFE: 1,15490

DOUBLEANALAYSES:

INVENTORYNo: Regensburg A 1422

PCA\_factor\_1: -0,5157300 PCA\_factor\_2: -2,1149200

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 15

CLUSTER\_No\_IV 33 Randomised: -0,18

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Ruckdeschel 1978a, 432; Heyd 2000b, 74 f.

COMMENT:

ANo: 184 LABNo: 00354

FIND\_PLACE: Mettenheim, Lkr. Mühlheim a. Inn

SITE: Hockergrab

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl

PLACENo: 3315 LATITUDE: 48,250 LONGITUDE: 12,500

AM: OES MG: 26 CU: 0,000

SN: 0,030 ng\_LogSN: 1,52288 PB: 0,280 ng\_LogPB: 0,55284

AS: 0,580 ng\_LogAS: 0,23657 SB: 0,000 ng\_LogSB: 3,50000

AG: 0,160 ng\_LogAG: 0,79588 NI: 0,050 ng\_LogNI: 1,30103

BI: 0,100 ng\_LogBI: 1,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: München, Stslg. 1939/35

PCA\_factor\_1: 0,1482400 PCA\_factor\_2: -1,4474200

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18

CLUSTER\_No\_IV 43 Randomised: 0,48

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Heyd 2000b, 76.

COMMENT:

ANo: 192 LABNo: 00140

FIND\_PLACE: Moosinning, 'Neue Kempfinger Brücke', Lkr. Erding

SITE: Einzelfund

FEATURE: Single Find NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 3447 LATITUDE: 48,283 LONGITUDE: 11,850

AM: OES MG: 30 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 1,140 ng\_LogPB: -0,05690

AS: 0,060 ng\_LogAS: 1,22185 SB: 0,050 ng\_LogSB: 1,30103

AG: 0,230 ng\_LogAG: 0,63827 NI: 0,400 ng\_LogNI: 0,39794

BI: 0,030 ng\_LogBI: 1,52288 FE: 0,070 ng\_LogFE: 1,15490

DOUBLEANALAYSES:

INVENTORYNo: München, Stslg. 1926/15

PCA\_factor\_1: 0,1388600 PCA\_factor\_2: -2,1005000

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 15

CLUSTER\_No\_IV 33 Randomised: -0,59

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Heyd 2000b, 76.

COMMENT:

ANo: 210 LABNo: 00148

FIND\_PLACE: München-Sendling, 'Wolfratshauser Str.', Stkr. München

SITE: Grab 1

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 3505 LATITUDE: 48,117 LONGITUDE: 11,567

AM: OES MG: 53 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,170 ng\_LogPB: 0,76955

AS: 0,090 ng\_LogAS: 1,04576 SB: 0,050 ng\_LogSB: 1,30103

AG: 0,100 ng\_LogAG: 1,00000 NI: 0,600 ng\_LogNI: 0,22185

BI: 0,010 ng\_LogBI: 2,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: München, Stslg. 1906/580

PCA\_factor\_1: -0,2013900 PCA\_factor\_2: -0,6417900

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18

CLUSTER\_No\_IV 43 Randomised: -0,87

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Heyd 2000b, 79.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 211 LABNo: 00149

FIND\_PLACE: München-Sending, 'Wolfratshauser Str.', Stkr. München

SITE: Grab 2, 3 od. 4

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 3505 LATITUDE: 48,117 LONGITUDE: 11,567  
AM: OES MG: 27 CU: 0,000  
SN: 0,000 ng\_LogSN: 3,50000 PB: 0,110 ng\_LogPB: 0,95861  
AS: 0,006 ng\_LogAS: 2,22185 SB: 0,100 ng\_LogSB: 1,00000  
AG: 0,130 ng\_LogAG: 0,88606 NI: 0,300 ng\_LogNI: 0,52288  
BI: 0,020 ng\_LogBI: 1,69897 FE: 0,040 ng\_LogFE: 1,39794  
DOUBLEANALAYSES:  
INVENTORYNo: München, Stslg. 1906/641  
PCA\_factor\_1: 0,1726900 PCA\_factor\_2: -1,5078500  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 40 Randomised: -1,45  
Metal\_groups: Silver-antimony-copper (high)  
LITERATURE: Heyd 2000b, 79.  
COMMENT:

ANo: 276 LABNo: 00141

FIND\_PLACE: Safferstetten, Lkr. Passau

SITE: Grab 1

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 212 TYPE\_2: 212  
OBJECT: Dagger, 5 rivets

PLACENo: 4482 LATITUDE: 48,367 LONGITUDE: 13,333  
AM: OES MG: 30 CU: 0,000  
SN: 0,020 ng\_LogSN: 1,69897 PB: 0,180 ng\_LogPB: 0,74473  
AS: 0,140 ng\_LogAS: 0,85387 SB: 0,060 ng\_LogSB: 1,22185  
AG: 0,200 ng\_LogAG: 0,69897 NI: 0,200 ng\_LogNI: 0,69897  
BI: 0,030 ng\_LogBI: 1,52288 FE: 0,000 ng\_LogFE: 3,50000  
DOUBLEANALAYSES:  
INVENTORYNo: München, Stslg. 1913/366  
PCA\_factor\_1: -0,4910900 PCA\_factor\_2: -0,8628000  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43 Randomised: -0,50  
Metal\_groups: Arsenic-copper with Impurities  
LITERATURE: Ruckdeschel 1978a, 77 ff.; Heyd 2000b, 79.  
COMMENT:

ANo: 3193 LABNo: 03193

FIND\_PLACE: Brandysek

SITE: Hrob 71

FEATURE: Grave NAT: CZ DIST: KL AREA: 111  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 718 LATITUDE: 50,183 LONGITUDE: 14,183  
AM: OES MG: 56 CU: 0,000  
SN: 0,000 ng\_LogSN: 3,50000 PB: 0,240 ng\_LogPB: 0,61979  
AS: 1,000 ng\_LogAS: 0,00000 SB: 0,120 ng\_LogSB: 0,92082  
AG: 0,120 ng\_LogAG: 0,92082 NI: 0,450 ng\_LogNI: 0,34679  
BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000  
DOUBLEANALAYSES:  
INVENTORYNo: Praha  
PCA\_factor\_1: -0,4998100 PCA\_factor\_2: -0,3621300  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43 Randomised: 0,84  
Metal\_groups: Arsenic-copper with Impurities  
LITERATURE: Kytlicová 1960, 458.  
COMMENT:

ANo: 3194 LABNo: 03194

FIND\_PLACE: Brandysek

SITE: Hrob 22

FEATURE: Grave NAT: CZ DIST: KL AREA: 111  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 718 LATITUDE: 50,183 LONGITUDE: 14,183  
AM: OES MG: 27 CU: 0,000  
SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,070 ng\_LogSB: 1,15490  
AG: 0,100 ng\_LogAG: 1,00000 NI: 0,050 ng\_LogNI: 1,30103  
BI: 0,003 ng\_LogBI: 2,52288 FE: 0,000 ng\_LogFE: 3,50000  
DOUBLEANALAYSES:  
INVENTORYNo: Praha  
PCA\_factor\_1: 0,0822200 PCA\_factor\_2: 0,6243400  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 11  
CLUSTER\_No\_IV 27 Randomised: -0,34  
Metal\_groups: Silver-antimony-copper (low)  
LITERATURE: Kytlicová 1960, 458.  
COMMENT:

ANo: 3236 LABNo: 03236

FIND\_PLACE: Praha-Ruzyn

SITE: Körpergrab

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 4441 LATITUDE: 50,083 LONGITUDE: 14,317  
AM: OES MG: 49 CU: 0,000  
SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,020 ng\_LogSB: 1,69897  
AG: 0,020 ng\_LogAG: 1,69897 NI: 0,001 ng\_LogNI: 3,00000  
BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000  
DOUBLEANALAYSES:  
INVENTORYNo: Praha 46281  
PCA\_factor\_1: 0,7099200 PCA\_factor\_2: 0,6127000  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24 Randomised: 0,98  
Metal\_groups: Silver-antimony-copper (low)  
LITERATURE: Hájek 1968, 99.  
COMMENT:

ANo: 3237 LABNo: 03237

FIND\_PLACE: Roztoky, 'Levy Hradec'

SITE: Einzelfund

FEATURE: Single Find NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 4420 LATITUDE: 50,167 LONGITUDE: 14,383  
AM: OES MG: 46 CU: 0,000  
SN: 0,570 ng\_LogSN: 0,24413 PB: 0,030 ng\_LogPB: 1,52288  
AS: 0,650 ng\_LogAS: 0,18709 SB: 0,070 ng\_LogSB: 1,15490  
AG: 0,010 ng\_LogAG: 2,00000 NI: 0,010 ng\_LogNI: 2,00000  
BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000  
DOUBLEANALAYSES:  
INVENTORYNo: Praha 60273  
PCA\_factor\_1: -0,4788300 PCA\_factor\_2: -0,1551500  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 41 Randomised: 0,81  
Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)  
LITERATURE: Hájek 1968, 109.  
COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 3239 LABNo: 03239

FIND\_PLACE: Praha-Prosek

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4157 LATITUDE: 50,083 LONGITUDE: 14,417

AM: OES MG: 40 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000

AG: 0,010 ng\_LogAG: 2,00000 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 27987

PCA\_factor\_1: 1,1821700 PCA\_factor\_2: 0,4587900

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 3 CLUSTER\_No\_III: 9  
CLUSTER\_No\_IV 9 Randomised: -0,92

Metal\_groups: Almost pure

LITERATURE: Hájek 1968, 99.

COMMENT:

ANo: 3240 LABNo: 03240

FIND\_PLACE: Praha-Bubenec, 'Sibirska-Gasse'

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4127 LATITUDE: 50,117 LONGITUDE: 14,433

AM: OES MG: 51 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,440 ng\_LogAS: 0,35655 SB: 0,070 ng\_LogSB: 1,15490

AG: 0,050 ng\_LogAG: 1,30103 NI: 0,020 ng\_LogNI: 1,69897

BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 37024

PCA\_factor\_1: -0,2013500 PCA\_factor\_2: 0,5600400

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 11  
CLUSTER\_No\_IV 28 Randomised: -0,28

Metal\_groups: Arsenic-copper (low)

LITERATURE: Hajek 1968, 88.

COMMENT:

ANo: 3241 LABNo: 03241

FIND\_PLACE: Neratovice

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: ME AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 3578 LATITUDE: 50,250 LONGITUDE: 14,483

AM: OES MG: 26 CU: 0,000

SN: 0,660 ng\_LogSN: 0,18046 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,030 ng\_LogAS: 1,52288 SB: 0,070 ng\_LogSB: 1,15490

AG: 0,290 ng\_LogAG: 0,53760 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,007 ng\_LogBI: 2,15490 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 39778

PCA\_factor\_1: -0,4945900 PCA\_factor\_2: 0,3408000

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 41 Randomised: 2,94

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Hajek 1968, 75.

COMMENT:

ANo: 3242 LABNo: 03242

FIND\_PLACE: Lysolaje

SITE: Grab III

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 3131 LATITUDE: 50,100 LONGITUDE: 14,433

AM: OES MG: 42 CU: 0,000

SN: 0,200 ng\_LogSN: 0,69897 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,070 ng\_LogSB: 1,15490

AG: 0,390 ng\_LogAG: 0,40894 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,005 ng\_LogBI: 2,30103 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 40733

PCA\_factor\_1: -0,1748800 PCA\_factor\_2: 0,4643400

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 41 Randomised: 1,60

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Hajek 1968, 64.

COMMENT:

ANo: 3243 LABNo: 03243

FIND\_PLACE: Chrást

SITE: Brandgrab

FEATURE: Grave NAT: CZ DIST: PIR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 1035 LATITUDE: 49,800 LONGITUDE: 13,500

AM: OES MG: 42 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,100 ng\_LogSB: 1,00000

AG: 0,150 ng\_LogAG: 0,82391 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 90064

PCA\_factor\_1: 0,3459700 PCA\_factor\_2: 0,7132000

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24 Randomised: -2,54

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Nat. Museum Prague.

COMMENT:

ANo: 3244 LABNo: 03244

FIND\_PLACE: Lysolaje

SITE: Körpergrab VI

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 3131 LATITUDE: 50,100 LONGITUDE: 14,433

AM: OES MG: 42 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,030 ng\_LogSB: 1,52288

AG: 0,190 ng\_LogAG: 0,72125 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 15773

PCA\_factor\_1: 0,4377800 PCA\_factor\_2: 0,6787400

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24 Randomised: -1,02

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Hajek 1968, 64f.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 3245 LABNo: 03245

FIND\_PLACE: Lysolaje

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 3131 LATITUDE: 50,100 LONGITUDE: 14,433

AM: OES MG: 20 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,010 ng\_LogSB: 2,00000

AG: 0,190 ng\_LogAG: 0,72125 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,009 ng\_LogBI: 2,04576 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 40724

PCA\_factor\_1: 0,6723000 PCA\_factor\_2: 0,1684300

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24 Randomised: 1,00

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Hajek 1968, 63f.

COMMENT:

ANo: 3246 LABNo: 03246

FIND\_PLACE: Praha-Kobylisy, 'Boranovicka-Gasse'

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 2613 LATITUDE: 50,100 LONGITUDE: 14,450

AM: OES MG: 10 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,050 ng\_LogAS: 1,30103 SB: 0,280 ng\_LogSB: 0,55284

AG: 0,340 ng\_LogAG: 0,46852 NI: 0,070 ng\_LogNI: 1,15490

BI: 0,005 ng\_LogBI: 2,30103 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 88834

PCA\_factor\_1: -0,4814600 PCA\_factor\_2: 0,5363000

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18

CLUSTER\_No\_IV 43 Randomised: 0,89

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Hajek 1968, 94.

COMMENT:

ANo: 3247 LABNo: 03247

FIND\_PLACE: Lhánice

SITE: Grab 8/51

FEATURE: Grave NAT: CZ DIST: TR AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2945 LATITUDE: 49,233 LONGITUDE: 15,883

AM: OES MG: 10 CU: 0,000

SN: 0,030 ng\_LogSN: 1,52288 PB: 0,040 ng\_LogPB: 1,39794

AS: 0,060 ng\_LogAS: 1,22185 SB: 0,240 ng\_LogSB: 0,61979

AG: 1,000 ng\_LogAG: 0,00000 NI: 0,050 ng\_LogNI: 1,30103

BI: 0,005 ng\_LogBI: 2,30103 FE: 0,010 ng\_LogFE: 2,00000

DOUBLEANALAYSES:

INVENTORYNo: Praha 90050

PCA\_factor\_1: -0,6360000 PCA\_factor\_2: -0,7772500

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40 Randomised: 0,01

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3248 LABNo: 03248

FIND\_PLACE: Bohdalice, 'Pavlovice'

SITE: Grab 2/50

FEATURE: Grave NAT: CZ DIST: VY AREA: 114  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 641 LATITUDE: 49,217 LONGITUDE: 17,050

AM: OES MG: 26 CU: 0,000

SN: 2,500 ng\_LogSN: -0,39794 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,420 ng\_LogAS: 0,37675 SB: 0,040 ng\_LogSB: 1,39794

AG: 0,340 ng\_LogAG: 0,46852 NI: 0,130 ng\_LogNI: 0,88606

BI: 0,007 ng\_LogBI: 2,15490 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 90072

PCA\_factor\_1: -1,2292400 PCA\_factor\_2: 0,5198200

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 7 CLUSTER\_No\_III: 20

CLUSTER\_No\_IV 69 Randomised: 0,13

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3249 LABNo: 03249

FIND\_PLACE: Lhánice

SITE: Grab 11/51

FEATURE: Grave NAT: CZ DIST: TR AREA: 114  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 2945 LATITUDE: 49,233 LONGITUDE: 15,883

AM: OES MG: 27 CU: 0,000

SN: 0,130 ng\_LogSN: 0,88606 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,020 ng\_LogAS: 1,69897 SB: 0,120 ng\_LogSB: 0,92082

AG: 0,230 ng\_LogAG: 0,63827 NI: 0,100 ng\_LogNI: 1,00000

BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 90033

PCA\_factor\_1: -0,9093300 PCA\_factor\_2: 0,8060800

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 41 Randomised: -2,39

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3343 LABNo: 03343

FIND\_PLACE: Praha-Liben

SITE: Körpergrab VI

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 602 TYPE\_2: 600

OBJECT: Pin shaft

PLACENo: 4131 LATITUDE: 50,117 LONGITUDE: 14,450

AM: OES MG: 29 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,120 ng\_LogPB: 0,92082

AS: 0,680 ng\_LogAS: 0,16749 SB: 0,050 ng\_LogSB: 1,30103

AG: 0,040 ng\_LogAG: 1,39794 NI: 0,010 ng\_LogNI: 2,00000

BI: 0,026 ng\_LogBI: 1,58503 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha 28011

PCA\_factor\_1: 0,2421200 PCA\_factor\_2: -1,0163300

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18

CLUSTER\_No\_IV 43 Randomised: 0,97

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Hajek 1968, 97.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 3345 LABNo: 03345

FIND\_PLACE: Bylany

SITE: Brandgrab IV

FEATURE: Grave NAT: CZ DIST: CH AREA: 112  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810  
OBJECT: Awl

PLACENo: 5086 LATITUDE: 49,150 LONGITUDE: 16,517

AM: OES MG: 27 CU: 0,000

SN: 0,010 ng\_LogSN: 2,00000 PB: 0,072 ng\_LogPB: 1,14267  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,100 ng\_LogSB: 1,00000  
AG: 0,210 ng\_LogAG: 0,67778 NI: 0,079 ng\_LogNI: 1,10237  
BI: 0,008 ng\_LogBI: 2,09691 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prag, Nat.Mus. 60264

PCA\_factor\_1: -0,1383000 PCA\_factor\_2: -0,3787700  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 40 Randomised: 0,64

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Nat. Museum Prague.

COMMENT:

ANo: 3346 LABNo: 03346

FIND\_PLACE: Brno-Slatina

SITE: Grabfund

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 759 LATITUDE: 49,183 LONGITUDE: 16,650

AM: OES MG: 40 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000  
AG: 0,000 ng\_LogAG: 3,50000 NI: 0,001 ng\_LogNI: 3,00000  
BI: 0,000 ng\_LogBI: 3,50000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prag, Nat.Mus. 69850

PCA\_factor\_1: 1,4723100 PCA\_factor\_2: 0,6263900  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 3 CLUSTER\_No\_III: 8  
CLUSTER\_No\_IV 48 Randomised: 0,72

Metal\_groups: Pure

LITERATURE: Nat. Museum Prague.

COMMENT:

ANo: 3355 LABNo: 03355

FIND\_PLACE: Kobylnice

SITE: Grab 22/27

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 2614 LATITUDE: 49,150 LONGITUDE: 16,783

AM: OES MG: 49 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,010 ng\_LogSB: 2,00000  
AG: 0,050 ng\_LogAG: 1,30103 NI: 0,001 ng\_LogNI: 3,00000  
BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66356

PCA\_factor\_1: 0,6820400 PCA\_factor\_2: 0,6110800  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24 Randomised: 1,04

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Dvorak 1992, 27.

COMMENT:

ANo: 3356 LABNo: 03356

FIND\_PLACE: Ledce I

SITE: Hrob I

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 2899 LATITUDE: 49,217 LONGITUDE: 16,667

AM: OES MG: 21 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,060 ng\_LogSB: 1,22185  
AG: 0,370 ng\_LogAG: 0,43180 NI: 0,001 ng\_LogNI: 3,00000  
BI: 0,008 ng\_LogBI: 2,09691 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno Pa 244/36

PCA\_factor\_1: 0,4234000 PCA\_factor\_2: 0,2689000  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24 Randomised: -1,06

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Hajek 1957, 392.

COMMENT:

ANo: 3357 LABNo: 03357

FIND\_PLACE: Mistrín I

SITE: Grab 1/02

FEATURE: Grave NAT: CZ DIST: HO AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 3352 LATITUDE: 48,967 LONGITUDE: 17,083

AM: OES MG: 27 CU: 0,000

SN: 0,080 ng\_LogSN: 1,09691 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,260 ng\_LogSB: 0,58503  
AG: 0,270 ng\_LogAG: 0,56864 NI: 0,070 ng\_LogNI: 1,15490  
BI: 0,012 ng\_LogBI: 1,92082 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66837

PCA\_factor\_1: -0,5733300 PCA\_factor\_2: 0,4820000  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 41 Randomised: -1,19

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3358 LABNo: 03358

FIND\_PLACE: Mistrín I

SITE: Grab 3/02

FEATURE: Grave NAT: CZ DIST: HO AREA: 114  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810  
OBJECT: Awl, quadrangular

PLACENo: 3352 LATITUDE: 48,967 LONGITUDE: 17,083

AM: OES MG: 54 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000  
AG: 0,040 ng\_LogAG: 1,39794 NI: 0,070 ng\_LogNI: 1,15490  
BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66838

PCA\_factor\_1: 0,5995600 PCA\_factor\_2: 0,6750900  
CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 3 CLUSTER\_No\_III: 9  
CLUSTER\_No\_IV 9 Randomised: -0,72

Metal\_groups: Almost pure

LITERATURE: pers. corr. Dvorak.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 3359 LABNo: 03359

FIND\_PLACE: Brno-Holásky II

SITE: Grab 60/38

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged, fragm.

PLACENo: 2231 LATITUDE: 49,217 LONGITUDE: 16,667

AM: OES MG: 27 CU: 0,000

SN: 0,030 ng\_LogSN: 1,52288 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,050 ng\_LogSB: 1,30103

AG: 0,240 ng\_LogAG: 0,61979 NI: 0,030 ng\_LogNI: 1,52288

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno Dolch 1

PCA\_factor\_1: -0,3758400 PCA\_factor\_2: 0,9103300

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 41 Randomised: -0,34

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Dvorak 1992, 15.

COMMENT:

ANo: 3360 LABNo: 03360

FIND\_PLACE: Brno-Holásky II

SITE: Grab 60/38

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 201 TYPE\_2: 200

OBJECT: Dagger, fragm.

PLACENo: 2231 LATITUDE: 49,217 LONGITUDE: 16,667

AM: OES MG: 54 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000

AG: 0,010 ng\_LogAG: 2,00000 NI: 0,040 ng\_LogNI: 1,39794

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno Dolch 2

PCA\_factor\_1: 0,8008700 PCA\_factor\_2: 0,6184900

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 3 CLUSTER\_No\_III: 9

CLUSTER\_No\_IV 9 Randomised: 0,36

Metal\_groups: Almost pure

LITERATURE: Dvorak 1992, 15.

COMMENT:

ANo: 3361 LABNo: 03361

FIND\_PLACE: Strelce, 'Strelce VI'

SITE: Grab 3/26

FEATURE: Grave NAT: CZ DIST: ZN AREA: 114  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 5086 LATITUDE: 49,150 LONGITUDE: 16,517

AM: OES MG: 42 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,070 ng\_LogSB: 1,15490

AG: 0,140 ng\_LogAG: 0,85387 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 67076

PCA\_factor\_1: 0,4280600 PCA\_factor\_2: 0,5502700

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24 Randomised: -0,12

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3362 LABNo: 03362

FIND\_PLACE: Strelce, 'Strelce VI'

SITE: Grab 1/26

FEATURE: Grave NAT: CZ DIST: ZN AREA: 114  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl

PLACENo: 5086 LATITUDE: 49,150 LONGITUDE: 16,517

AM: OES MG: 42 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,080 ng\_LogSB: 1,09691

AG: 0,200 ng\_LogAG: 0,69897 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,001 ng\_LogBI: 3,00000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66741

PCA\_factor\_1: 0,3377500 PCA\_factor\_2: 0,7125100

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24 Randomised: 1,71

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3363 LABNo: 03363

FIND\_PLACE: Ledce I

SITE: Hrob I

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 2899 LATITUDE: 49,217 LONGITUDE: 16,667

AM: OES MG: 30 CU: 0,000

SN: 0,030 ng\_LogSN: 1,52288 PB: 0,150 ng\_LogPB: 0,82391

AS: 0,030 ng\_LogAS: 1,52288 SB: 0,110 ng\_LogSB: 0,95861

AG: 0,380 ng\_LogAG: 0,42022 NI: 0,080 ng\_LogNI: 1,09691

BI: 0,028 ng\_LogBI: 1,55284 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno Pa 244/36

PCA\_factor\_1: -0,4751400 PCA\_factor\_2: -0,7967400

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40 Randomised: 1,64

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Hajek 1957, 392.

COMMENT:

ANo: 3364 LABNo: 03364

FIND\_PLACE: Slapanice II

SITE: Grab 21/35

FEATURE: Grave NAT: CZ DIST: BR AREA: 114  
CULT: BBC PER: 35 TYPE: 212 TYPE\_2: 212

OBJECT: Dagger, 4 rivets

PLACENo: 4779 LATITUDE: 49,183 LONGITUDE: 16,717

AM: OES MG: 49 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,020 ng\_LogSB: 1,69897

AG: 0,080 ng\_LogAG: 1,09691 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno Pa 169/35-58

PCA\_factor\_1: 0,6069700 PCA\_factor\_2: 0,4956000

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24 Randomised: -0,18

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Dvorak/Hajek 1990, Taf.???

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 3365      LABNo: 03365

FIND\_PLACE: Holubice

SITE: Fundumstände unbekannt

FEATURE: Single Find      NAT: CZ      DIST: VY      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2240      LATITUDE: 49,183      LONGITUDE: 16,817

AM: OES      MG: 54      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,000      ng\_LogSB: 3,50000

AG: 0,000      ng\_LogAG: 3,50000      NI: 0,020      ng\_LogNI: 1,69897

BI: 0,000      ng\_LogBI: 3,50000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66867

PCA\_factor\_1: 1,1626600      PCA\_factor\_2: 0,7560800

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 3      CLUSTER\_No\_III: 8  
CLUSTER\_No\_IV 22      Randomised: 1,98

Metal\_groups: Pure with Nickel

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3366      LABNo: 03366

FIND\_PLACE: Letonice III

SITE: Grab 1/1927

FEATURE: Grave      NAT: CZ      DIST: VY      AREA: 114  
CULT: BBC      PER: 35      TYPE: 212      TYPE\_2: 212

OBJECT: Dagger, 4 rivets

PLACENo: 2933      LATITUDE: 49,167      LONGITUDE: 16,967

AM: OES      MG: 42      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,190      ng\_LogSB: 0,72125

AG: 0,520      ng\_LogAG: 0,28400      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,002      ng\_LogBI: 2,69897      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66308

PCA\_factor\_1: 0,1958300      PCA\_factor\_2: 0,6140800

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24      Randomised: -0,84

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3371      LABNo: 03371

FIND\_PLACE: Kobylnice

SITE: Grab 12/27

FEATURE: Grave      NAT: CZ      DIST: BR      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2614      LATITUDE: 49,150      LONGITUDE: 16,783

AM: OES      MG: 42      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,040      ng\_LogSB: 1,39794

AG: 0,040      ng\_LogAG: 1,39794      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,001      ng\_LogBI: 3,00000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 66357

PCA\_factor\_1: 0,5712500      PCA\_factor\_2: 0,6519000

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24      Randomised: -1,02

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Dvorak 1992, 26.

COMMENT:

ANo: 3471      LABNo: 03471

FIND\_PLACE: Vyskov

SITE: Grab 2/58

FEATURE: Grave      NAT: CZ      DIST: VY      AREA: 114  
CULT: BBC      PER: 35      TYPE: 603      TYPE\_2: 600

OBJECT: Pin, oar-headed

PLACENo: 5777      LATITUDE: 49,317      LONGITUDE: 17,000

AM: OES      MG: 40      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,000      ng\_LogSB: 3,50000

AG: 0,060      ng\_LogAG: 1,22185      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,001      ng\_LogBI: 3,00000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 1259-5/58

PCA\_factor\_1: 0,9967400      PCA\_factor\_2: 0,5006300

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 3      CLUSTER\_No\_III: 9  
CLUSTER\_No\_IV 9      Randomised: 0,34

Metal\_groups: Almost pure

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3472      LABNo: 03472

FIND\_PLACE: Lechovice

SITE: Grab 6/58

FEATURE: Grave      NAT: CZ      DIST: ZN      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2897      LATITUDE: 48,883      LONGITUDE: 16,233

AM: OES      MG: 20      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,010      ng\_LogSB: 2,00000

AG: 0,070      ng\_LogAG: 1,15490      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,004      ng\_LogBI: 2,39794      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno 511-29/58

PCA\_factor\_1: 0,7282400      PCA\_factor\_2: 0,3199900

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10  
CLUSTER\_No\_IV 24      Randomised: -0,19

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 3619      LABNo: 03619

FIND\_PLACE: Laa an der Thaya, p. B. Misterbach

SITE: Brandgrab 7

FEATURE: Grave      NAT: A      DIST: NÖ      AREA: 72  
CULT: BBC      PER: 35      TYPE: 806      TYPE\_2: 810

OBJECT: Awl

PLACENo: 2802      LATITUDE: 48,733      LONGITUDE: 16,383

AM: OES      MG: 29      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 2,750      ng\_LogAS: -0,43933      SB: 0,140      ng\_LogSB: 0,85387

AG: 0,020      ng\_LogAG: 1,69897      NI: 0,470      ng\_LogNI: 0,32790

BI: 0,180      ng\_LogBI: 0,74473      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Wien, NHM 63079

PCA\_factor\_1: -0,3447500      PCA\_factor\_2: -0,2963000

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43      Randomised: 0,26

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Neugebauer/Neugebauer 1998, 312

COMMENT:



# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 4984 LABNo: 04984

FIND\_PLACE: Hradec Králové

SITE: unbekannt

FEATURE: Single Find NAT: CZ DIST: HK AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2278 LATITUDE: 50,217 LONGITUDE: 15,833

AM: OES MG: 21 CU: 0,000

SN: 0,010 ng\_LogSN: 2,00000 PB: 0,310 ng\_LogPB: 0,50864

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,040 ng\_LogSB: 1,39794

AG: 0,270 ng\_LogAG: 0,56864 NI: 0,010 ng\_LogNI: 2,00000

BI: 0,011 ng\_LogBI: 1,95861 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Wien, NHM 139 40

PCA\_factor\_1: 0,2036300 PCA\_factor\_2: -0,8002000

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40 Randomised: 0,05

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Hajek 1968, 24.

COMMENT:

ANo: 6394 LABNo: 06394

FIND\_PLACE: Budapest-XVII-Rákosszaba

SITE: Grab

FEATURE: Grave NAT: H DIST: BU AREA: 125  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 799 LATITUDE: 47,500 LONGITUDE: 19,050

AM: OES MG: 40 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000

AG: 0,010 ng\_LogAG: 2,00000 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,000 ng\_LogBI: 3,50000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Budapest 58.1929.9

PCA\_factor\_1: 1,1148800 PCA\_factor\_2: 0,7070600

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 3 CLUSTER\_No\_III: 8

CLUSTER\_No\_IV 23 Randomised: -0,43

Metal\_groups: Pure with Silver

LITERATURE: MNM; Schreiber 1973.

COMMENT:

ANo: 6533 LABNo: 06533

FIND\_PLACE: Gyor

SITE: Fundumstände unbekannt

FEATURE: Single Find NAT: H DIST: GS AREA: 123  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2057 LATITUDE: 47,683 LONGITUDE: 17,667

AM: OES MG: 21 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,220 ng\_LogSB: 0,65758

AG: 0,660 ng\_LogAG: 0,18046 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,008 ng\_LogBI: 2,09691 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Budapest 41/1907-1

PCA\_factor\_1: 0,2380200 PCA\_factor\_2: 0,3255700

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 26 Randomised: -0,24

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: MNM.

COMMENT:

ANo: 7509 LABNo: 07509

FIND\_PLACE: Rosnice

SITE: Körpergrab I

FEATURE: Grave NAT: CZ DIST: KV AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4397 LATITUDE: 50,267 LONGITUDE: 12,817

AM: OES MG: 42 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,100 ng\_LogSB: 1,00000

AG: 0,080 ng\_LogAG: 1,09691 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,002 ng\_LogBI: 2,69897 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: České Budejovice

PCA\_factor\_1: 0,4515300 PCA\_factor\_2: 0,5490500

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24 Randomised: -1,30

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Hájek 1968, 108.

COMMENT: Remains of a wooded sheath

ANo: 7546 LABNo: 07546

FIND\_PLACE: Kostov

SITE: Grab I

FEATURE: Grave NAT: CZ DIST: Un AREA: 111  
CULT: BBC PER: 35 TYPE: 104 TYPE\_2: 100

OBJECT: Axe, flat axe

PLACENo: 2684 LATITUDE: 50,683 LONGITUDE: 14,000

AM: OES MG: 21 CU: 0,000

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,000 ng\_LogPB: 3,50000

AS: 0,000 ng\_LogAS: 3,50000 SB: 0,390 ng\_LogSB: 0,40894

AG: 0,140 ng\_LogAG: 0,85387 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,018 ng\_LogBI: 1,74473 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Usti nad Labem 8

PCA\_factor\_1: 0,3905900 PCA\_factor\_2: 0,1334900

CLUSTER\_No\_I: 1 CLUSTER\_No\_II: 4 CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 26 Randomised: 0,70

Metal\_groups: Antimony-silver-copper

LITERATURE: Hájek 1968, 44; Dobes 1990, 132, No. 4.

COMMENT: Circumstance not clear.

ANo: 11196 LABNo: 11196

FIND\_PLACE: Linz-Scharlinz, p. B. Linz

SITE: Dolch Grab I

FEATURE: Grave NAT: A DIST: OÖ AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2975 LATITUDE: 48,317 LONGITUDE: 14,300

AM: OES MG: 21 CU: 0,000

SN: 0,070 ng\_LogSN: 1,15490 PB: 0,520 ng\_LogPB: 0,28400

AS: 0,020 ng\_LogAS: 1,69897 SB: 0,030 ng\_LogSB: 1,52288

AG: 0,230 ng\_LogAG: 0,63827 NI: 0,001 ng\_LogNI: 3,00000

BI: 0,021 ng\_LogBI: 1,67778 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Linz, LM A 4576832

PCA\_factor\_1: 0,1301900 PCA\_factor\_2: -1,1656700

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40 Randomised: 0,60

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Matuschik 2004, 297, No. 29.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 11197      LABNo: 11197

FIND\_PLACE: Linz-Scharlinz, p. B. Linz

SITE: Dolch Grab II

FEATURE: Grave      NAT: A      DIST: OÖ      AREA: 66  
 CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215  
 OBJECT: Dagger, tanged

PLACENo: 2975      LATITUDE: 48,317      LONGITUDE: 14,300

AM: OES      MG: 44      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,320      ng\_LogPB: 0,49485  
 AS: 0,530      ng\_LogAS: 0,27572      SB: 0,110      ng\_LogSB: 0,95861  
 AG: 0,200      ng\_LogAG: 0,69897      NI: 0,001      ng\_LogNI: 3,00000  
 BI: 0,009      ng\_LogBI: 2,04576      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Linz, LM A 4579834

PCA\_factor\_1: 0,2218000      PCA\_factor\_2: -0,9805500  
 CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 18  
 CLUSTER\_No\_IV 43      Randomised: 0,65

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Matuschik 2004, 297, No. 29.

COMMENT:

ANo: 11526      LABNo: 11526

FIND\_PLACE: Oggau, 'Seestrasse', p. B. Eisenstadt-Umgebung

SITE: Grab 4

FEATURE: Grave      NAT: A      DIST: BL      AREA: 123  
 CULT: BBC      PER: 35      TYPE: 212      TYPE\_2: 212  
 OBJECT: Dagger, riveted

PLACENo: 3769      LATITUDE: 47,833      LONGITUDE: 16,667

AM: OES      MG: 46      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000  
 AS: 1,300      ng\_LogAS: -0,11394      SB: 0,000      ng\_LogSB: 3,50000  
 AG: 0,010      ng\_LogAG: 2,00000      NI: 0,010      ng\_LogNI: 2,00000  
 BI: 0,000      ng\_LogBI: 3,50000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Eisenstadt 8910714

PCA\_factor\_1: 0,3867600      PCA\_factor\_2: 0,6965100  
 CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 11  
 CLUSTER\_No\_IV 28      Randomised: -0,51

Metal\_groups: Arsenic-copper (low)

LITERATURE: Hicke 1987, 65.

COMMENT:

ANo: 11527      LABNo: 11527

FIND\_PLACE: Oggau, 'Seestrasse', p. B. Eisenstadt-Umgebung

SITE: Grab 1

FEATURE: Grave      NAT: A      DIST: BL      AREA: 123  
 CULT: BBC      PER: 35      TYPE: 212      TYPE\_2: 212  
 OBJECT: Dagger, riveted

PLACENo: 3769      LATITUDE: 47,833      LONGITUDE: 16,667

AM: OES      MG: 27      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000  
 AS: 0,020      ng\_LogAS: 1,69897      SB: 0,050      ng\_LogSB: 1,30103  
 AG: 0,310      ng\_LogAG: 0,50864      NI: 0,020      ng\_LogNI: 1,69897  
 BI: 0,014      ng\_LogBI: 1,85387      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Eisenstadt 8093716

PCA\_factor\_1: -0,0618900      PCA\_factor\_2: 0,2128000  
 CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 11  
 CLUSTER\_No\_IV 27      Randomised: -0,48

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: Hicke 1987, 65.

COMMENT:

ANo: 12438      LABNo: 12438

FIND\_PLACE: Dunaföldvár

SITE: Single find

FEATURE: Single Find      NAT: H      DIST: TO      AREA: 124  
 CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215  
 OBJECT: Dagger, tanged

PLACENo: 1435      LATITUDE: 46,800      LONGITUDE: 18,917

AM: OES      MG: 46      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,010      ng\_LogPB: 2,00000  
 AS: 0,160      ng\_LogAS: 0,79588      SB: 0,030      ng\_LogSB: 1,52288  
 AG: 0,010      ng\_LogAG: 2,00000      NI: 0,010      ng\_LogNI: 2,00000  
 BI: 0,000      ng\_LogBI: 3,50000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Budapest 30/1877286

PCA\_factor\_1: 0,1821200      PCA\_factor\_2: 0,3106800  
 CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 5      CLUSTER\_No\_III: 14  
 CLUSTER\_No\_IV 31      Randomised: 1,36

Metal\_groups: Arsenic-copper (low)

LITERATURE: Patay 1938, 21, No. 13.

COMMENT:

ANo: 19920      LABNo: 19920

FIND\_PLACE: Predmostí

SITE: Grab

FEATURE: Grave      NAT: CZ      DIST: PR      AREA: 114  
 CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215  
 OBJECT: Dagger, tanged

PLACENo: 4146      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 53      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000  
 AS: 3,400      ng\_LogAS: -0,53148      SB: 0,030      ng\_LogSB: 1,52288  
 AG: 0,000      ng\_LogAG: 3,50000      NI: 2,700      ng\_LogNI: -0,43136  
 BI: 0,005      ng\_LogBI: 2,30103      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prerov

PCA\_factor\_1: -0,1694500      PCA\_factor\_2: 0,4013300  
 CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 16  
 CLUSTER\_No\_IV 37      Randomised: 0,72

Metal\_groups: Arsenic-nickel-copper

LITERATURE: pers. corr. Dvorak.

COMMENT: Daggers came from two graves; connext not clear.

ANo: 19921      LABNo: 19921

FIND\_PLACE: Predmostí

SITE: Grab

FEATURE: Grave      NAT: CZ      DIST: PR      AREA: 114  
 CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215  
 OBJECT: Dagger, tanged

PLACENo: 4146      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 49      CU: 0,000  
 SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000  
 AS: 0,000      ng\_LogAS: 3,50000      SB: 0,008      ng\_LogSB: 2,09691  
 AG: 0,290      ng\_LogAG: 0,53760      NI: 0,001      ng\_LogNI: 3,00000  
 BI: 0,002      ng\_LogBI: 2,69897      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prerov

PCA\_factor\_1: 0,5621900      PCA\_factor\_2: 0,4952500  
 CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10  
 CLUSTER\_No\_IV 24      Randomised: 1,08

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT: Daggers came from two graves; connext not clear.

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 19922      LABNo: 19922

FIND\_PLACE: Predmostí

SITE: Grab

FEATURE: Grave      NAT: CZ      DIST: PR      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4146      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 26      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,820      ng\_LogAS: 0,08619      SB: 0,010      ng\_LogSB: 2,00000

AG: 0,000      ng\_LogAG: 3,50000      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,003      ng\_LogBI: 2,52288      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prerov

PCA\_factor\_1: 0,8072500      PCA\_factor\_2: 0,1517900

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 12

CLUSTER\_No\_IV 30      Randomised: 0,85

Metal\_groups: Arsenic-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT: Daggers came from two graves; connext not clear.

ANo: 19923      LABNo: 19923

FIND\_PLACE: Predmostí

SITE: Grab

FEATURE: Grave      NAT: CZ      DIST: PR      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4146      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 26      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 2,200      ng\_LogAS: -0,34242      SB: 0,000      ng\_LogSB: 3,50000

AG: 0,000      ng\_LogAG: 3,50000      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,004      ng\_LogBI: 2,39794      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prerov

PCA\_factor\_1: 1,0995100      PCA\_factor\_2: -0,0380200

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 12

CLUSTER\_No\_IV 30      Randomised: 0,57

Metal\_groups: Arsenic-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT: Daggers came from two graves; connext not clear.

ANo: 19924      LABNo: 19924

FIND\_PLACE: Predmostí

SITE: Grab

FEATURE: Grave      NAT: CZ      DIST: PR      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4146      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 26      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 1,250      ng\_LogAS: -0,09691      SB: 0,006      ng\_LogSB: 2,22185

AG: 0,020      ng\_LogAG: 1,69897      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,005      ng\_LogBI: 2,30103      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prerov

PCA\_factor\_1: 0,4324500      PCA\_factor\_2: 0,1159400

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 12

CLUSTER\_No\_IV 29      Randomised: 0,75

Metal\_groups: Arsenic-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT: Daggers came from two graves; connext not clear.

ANo: 19925      LABNo: 19925

FIND\_PLACE: Turovice I

SITE: Hügelgrab 2

FEATURE: Grave      NAT: CZ      DIST: OL      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 5441      LATITUDE: 49,467      LONGITUDE: 17,500

AM: OES      MG: 53      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 2,700      ng\_LogAS: -0,43136      SB: 0,310      ng\_LogSB: 0,50864

AG: 0,010      ng\_LogAG: 2,00000      NI: 1,500      ng\_LogNI: -0,17609

BI: 0,003      ng\_LogBI: 2,52288      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Olomouc 4239

PCA\_factor\_1: -0,7079500      PCA\_factor\_2: 0,6473100

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 18

CLUSTER\_No\_IV 43      Randomised: 0,60

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 19930      LABNo: 19930

FIND\_PLACE: Vresovice III

SITE: Grab 10/13

FEATURE: Grave      NAT: CZ      DIST: PV      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, riveted

PLACENo: 5763      LATITUDE: 49,467      LONGITUDE: 17,117

AM: OES      MG: 20      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,020      ng\_LogSB: 1,69897

AG: 0,090      ng\_LogAG: 1,04576      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,033      ng\_LogBI: 1,48149      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Prostejov . F 37

PCA\_factor\_1: 0,7586100      PCA\_factor\_2: -0,1061800

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 24      Randomised: -1,77

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT:

ANo: 19931      LABNo: 19931

FIND\_PLACE: Luderov

SITE: Grab1/28

FEATURE: Grave      NAT: CZ      DIST: OL      AREA: 114  
CULT: BBC      PER: 35      TYPE: 806      TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 3090      LATITUDE: 49,617      LONGITUDE: 17,033

AM: OES      MG: 40      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,000      ng\_LogSB: 3,50000

AG: 0,210      ng\_LogAG: 0,67778      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,001      ng\_LogBI: 3,00000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES: #1931

INVENTORYNo: Olomouc 7157

PCA\_factor\_1: 0,8671000      PCA\_factor\_2: 0,5298900

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 3      CLUSTER\_No\_III: 9

CLUSTER\_No\_IV 9      Randomised: -1,68

Metal\_groups: Almost pure

LITERATURE: Hajek 1966, 214; pers. corr. Dvorak.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 19932      LABNo: 19932

FIND\_PLACE: Stehelceves

SITE: Grab 2/62

FEATURE: Grave      NAT: CZ      DIST: KL      AREA: 111  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 5016      LATITUDE: 50,183      LONGITUDE: 14,200

AM: OES      MG: 44      CU: 0,000

SN: 0,050      ng\_LogSN: 1,30103      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,210      ng\_LogAS: 0,67778      SB: 0,100      ng\_LogSB: 1,00000

AG: 0,210      ng\_LogAG: 0,67778      NI: 0,250      ng\_LogNI: 0,60206

BI: 0,006      ng\_LogBI: 2,22185      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha, AU CSAV

PCA\_factor\_1: -0,9697600      PCA\_factor\_2: 0,5565100

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 7      CLUSTER\_No\_III: 20

CLUSTER\_No\_IV 69      Randomised: -1,44

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Kuna/Matoušek 1978, 84.

COMMENT:

ANo: 19933      LABNo: 19933

FIND\_PLACE: Stehelceves

SITE: Grab 1/62

FEATURE: Grave      NAT: CZ      DIST: KL      AREA: 111  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 5016      LATITUDE: 50,183      LONGITUDE: 14,200

AM: OES      MG: 26      CU: 0,000

SN: 0,070      ng\_LogSN: 1,15490      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,220      ng\_LogAS: 0,65758      SB: 0,070      ng\_LogSB: 1,15490

AG: 0,150      ng\_LogAG: 0,82391      NI: 0,040      ng\_LogNI: 1,39794

BI: 0,011      ng\_LogBI: 1,95861      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Praha, AU CSAV

PCA\_factor\_1: -0,7071000      PCA\_factor\_2: 0,3307200

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 41      Randomised: 0,66

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Kuna/Matoušek 1978, 84.

COMMENT:

ANo: 19934      LABNo: 19934

FIND\_PLACE: Prosimerice

SITE: Grab 1B/58

FEATURE: Grave      NAT: CZ      DIST: ZN      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4158      LATITUDE: 48,917      LONGITUDE: 16,183

AM: OES      MG: 21      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,080      ng\_LogSB: 1,09691

AG: 0,230      ng\_LogAG: 0,63827      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,012      ng\_LogBI: 1,92082      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno, AU CSAV

PCA\_factor\_1: 0,4685100      PCA\_factor\_2: 0,1799200

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 4      CLUSTER\_No\_III: 10

CLUSTER\_No\_IV 26      Randomised: -0,16

Metal\_groups: Silver-antimony-copper (low)

LITERATURE: pers. corr. Dvorak.

COMMENT: Burial found in a ditch surrounding a central grave (all BBC).

ANo: 19935      LABNo: 19935

FIND\_PLACE: Ledce III

SITE: Körpergrab 1/62

FEATURE: Grave      NAT: CZ      DIST: BR      AREA: 114  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 2899      LATITUDE: 49,217      LONGITUDE: 16,667

AM: OES      MG: 20      CU: 0,000

SN: 2,600      ng\_LogSN: -0,41497      PB: 0,110      ng\_LogPB: 0,95861

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,020      ng\_LogSB: 1,69897

AG: 0,440      ng\_LogAG: 0,35655      NI: 0,060      ng\_LogNI: 1,22185

BI: 0,015      ng\_LogBI: 1,82391      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Brno, AU CSAV 508-3/62

PCA\_factor\_1: -0,4551400      PCA\_factor\_2: -0,5560700

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 41      Randomised: -2,00

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Dvorak 1992, 30.

COMMENT:

ANo: 21404      LABNo: 21404

FIND\_PLACE: Slany, 'Slánská Hora'

SITE: Siedlung

FEATURE: Settlement      NAT: CZ      DIST: KL      AREA: 111  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 4778      LATITUDE: 50,233      LONGITUDE: 14,083

AM: OES      MG: 10      CU: 0,000

SN: 0,900      ng\_LogSN: 0,04576      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,340      ng\_LogAS: 0,46852      SB: 0,440      ng\_LogSB: 0,35655

AG: 0,340      ng\_LogAG: 0,46852      NI: 0,040      ng\_LogNI: 1,39794

BI: 0,008      ng\_LogBI: 2,09691      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Slany

PCA\_factor\_1: -1,2315500      PCA\_factor\_2: 0,5085300

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 7      CLUSTER\_No\_III: 20

CLUSTER\_No\_IV 69      Randomised: 2,05

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Hájek 1968, 114.

COMMENT:

ANo: 21597      LABNo: 21597

FIND\_PLACE: Hülen, 'Kapfenberg', Ostalbkreis

SITE: Einzelfund

FEATURE: Single Find      NAT: D      DIST: BW      AREA: 62  
CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged, 1 rivet, small

PLACENo: 2292      LATITUDE: 48,850      LONGITUDE: 10,250

AM: OES      MG: 20      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,030      ng\_LogPB: 1,52288

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,020      ng\_LogSB: 1,69897

AG: 0,190      ng\_LogAG: 0,72125      NI: 0,040      ng\_LogNI: 1,39794

BI: 0,008      ng\_LogBI: 2,09691      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Lauchheim 821

PCA\_factor\_1: 0,3643300      PCA\_factor\_2: -0,3678500

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 5      CLUSTER\_No\_III: 14

CLUSTER\_No\_IV 31      Randomised: 0,15

Metal\_groups: Arsenic-copper (low)

LITERATURE: Fundber. Baden-Württemberg 1975, 69.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 29848      LABNo: 29848

FIND\_PLACE: Luderov

SITE: Grab1/28

FEATURE: Grave      NAT: CZ      DIST: OL      AREA: 114

CULT: BBC      PER: 35      TYPE: 806      TYPE\_2: 810

OBJECT: Awl, quadrangular

PLACENo: 3090      LATITUDE: 49,617      LONGITUDE: 17,033

AM: OES      MG: 40      CU: 0,000

SN: 0,000      ng\_LogSN: 3,50000      PB: 0,000      ng\_LogPB: 3,50000

AS: 0,000      ng\_LogAS: 3,50000      SB: 0,000      ng\_LogSB: 3,50000

AG: 0,280      ng\_LogAG: 0,55284      NI: 0,001      ng\_LogNI: 3,00000

BI: 0,000      ng\_LogBI: 3,50000      FE: 0,000      ng\_LogFE: 3,50000

DOUBLEANALAYSES: #1931

INVENTORYNo: Olomouc 7157

PCA\_factor\_1: 0,7700500      PCA\_factor\_2: 0,7848800

CLUSTER\_No\_I: 1      CLUSTER\_No\_II: 3      CLUSTER\_No\_III: 8

CLUSTER\_No\_IV 23      Randomised: 0,19

Metal\_groups: Pure with Silver

LITERATURE: Hajek 1966, 214; pers. corr. Dvorak.

COMMENT:

ANo: 32228      LABNo: FMZM0303

FIND\_PLACE: Mühlhausen, 'Aktivistenring', Lkr.Mühlhausen

SITE: Grabfund

FEATURE: Grave      NAT: D      DIST: TH      AREA: 103

CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 6910      LATITUDE: 51,213      LONGITUDE: 10,444

AM: XRF      MG: 26      CU: 99,000

SN: 0,010      ng\_LogSN: 2,00000      PB: 0,030      ng\_LogPB: 1,52288

AS: 0,214      ng\_LogAS: 0,66959      SB: 0,085      ng\_LogSB: 1,07058

AG: 0,083      ng\_LogAG: 1,08092      NI: 0,075      ng\_LogNI: 1,12494

BI: 0,017      ng\_LogBI: 1,76955      FE: 0,050      ng\_LogFE: 1,30103

DOUBLEANALAYSES: #FMZM0303

INVENTORYNo: Mühlhausen III/62/1c

PCA\_factor\_1: -0,1689800      PCA\_factor\_2: -1,3745300

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 15

CLUSTER\_No\_IV 33      Randomised: 1,11

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Wüstemann 1995, 92, No. 204; RGK Frankfurt.

COMMENT:

ANo: 32313      LABNo: FMZM0388

FIND\_PLACE: Kirchheim, Lkr. München

SITE: Grab

FEATURE: Grave      NAT: D      DIST: BA      AREA: 66

CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 6850      LATITUDE: 48,180      LONGITUDE: 11,790

AM: XRF      MG: 21      CU: 99,000

SN: 0,005      ng\_LogSN: 2,30103      PB: 0,160      ng\_LogPB: 0,79588

AS: 0,005      ng\_LogAS: 2,30103      SB: 0,038      ng\_LogSB: 1,42022

AG: 0,152      ng\_LogAG: 0,81816      NI: 0,017      ng\_LogNI: 1,76955

BI: 0,013      ng\_LogBI: 1,88606      FE: 0,050      ng\_LogFE: 1,30103

DOUBLEANALAYSES:

INVENTORYNo: München, Stslg. 1984, 3391 a

PCA\_factor\_1: 0,3184300      PCA\_factor\_2: -1,6269400

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40      Randomised: 0,42

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Stslg. München

COMMENT:

ANo: 32315      LABNo: FMZM0390

FIND\_PLACE: Trieching, Gde. Pilsting, Lkr. Dinglofing-Landau

SITE: Grab 1

FEATURE: Grave      NAT: D      DIST: BA      AREA: 66

CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 7068      LATITUDE: 48,760      LONGITUDE: 12,667

AM: XRF      MG: 26      CU: 98,000

SN: 0,027      ng\_LogSN: 1,56864      PB: 0,010      ng\_LogPB: 2,00000

AS: 1,550      ng\_LogAS: -0,19033      SB: 0,005      ng\_LogSB: 2,30103

AG: 0,006      ng\_LogAG: 2,22185      NI: 0,010      ng\_LogNI: 2,00000

BI: 0,007      ng\_LogBI: 2,15490      FE: 0,050      ng\_LogFE: 1,30103

DOUBLEANALAYSES:

INVENTORYNo: Kreisarch. Dingolfing-Landau ohne Nr.

PCA\_factor\_1: 0,2960300      PCA\_factor\_2: -1,2589400

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 16

CLUSTER\_No\_IV 36      Randomised: 0,17

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Kreiner 2003

COMMENT:

ANo: 32316      LABNo: FMZM0391

FIND\_PLACE: Landau a. d. Isar, 'Arberstraße', Lkr. Dingolfing-Landau

SITE: Grab A/81

FEATURE: Grave      NAT: D      DIST: BA      AREA: 66

CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 6879      LATITUDE: 48,682      LONGITUDE: 12,700

AM: XRF      MG: 21      CU: 98,000

SN: 0,005      ng\_LogSN: 2,30103      PB: 0,780      ng\_LogPB: 0,10791

AS: 0,005      ng\_LogAS: 2,30103      SB: 0,032      ng\_LogSB: 1,49485

AG: 0,450      ng\_LogAG: 0,34679      NI: 0,011      ng\_LogNI: 1,95861

BI: 0,043      ng\_LogBI: 1,36653      FE: 0,050      ng\_LogFE: 1,30103

DOUBLEANALAYSES:

INVENTORYNo: Kreisarch. Dingolfing-Landau ohne Nr.

PCA\_factor\_1: 0,3888200      PCA\_factor\_2: -2,1431400

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 6      CLUSTER\_No\_III: 17

CLUSTER\_No\_IV 40      Randomised: -0,30

Metal\_groups: Silver-antimony-copper (high)

LITERATURE: Kreiner 2003

COMMENT:

ANo: 32317      LABNo: FMZM0392

FIND\_PLACE: Altenmarkt, 'Sportplatz', Lkr. Deggendorf

SITE: Grabfund

FEATURE: Grave      NAT: D      DIST: BA      AREA: 66

CULT: BBC      PER: 35      TYPE: 215      TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 7201      LATITUDE: 48,430      LONGITUDE: 13,580

AM: XRF      MG: 10      CU: 97,000

SN: 3,600      ng\_LogSN: -0,55630      PB: 0,010      ng\_LogPB: 2,00000

AS: 0,194      ng\_LogAS: 0,71220      SB: 0,207      ng\_LogSB: 0,68403

AG: 0,220      ng\_LogAG: 0,65758      NI: 0,073      ng\_LogNI: 1,13668

BI: 0,005      ng\_LogBI: 2,30103      FE: 0,050      ng\_LogFE: 1,30103

DOUBLEANALAYSES:

INVENTORYNo: Kreisarch. Deggendorf B 134892

PCA\_factor\_1: -0,9566500      PCA\_factor\_2: -0,7984700

CLUSTER\_No\_I: 2      CLUSTER\_No\_II: 7      CLUSTER\_No\_III: 20

CLUSTER\_No\_IV 71      Randomised: 1,30

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Heyd 2000b, 66.

COMMENT:

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 32318 LABNo: FMZM0393

FIND\_PLACE: Straubing, 'Gabelsbergerstrasse', Lkr. Straubing-Bogen

SITE: Grab 3

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 212 TYPE\_2: 212  
OBJECT: Dagger, riveted

PLACENo: 5074 LATITUDE: 48,883 LONGITUDE: 12,567  
AM: XRF MG: 27 CU: 99,000  
SN: 0,010 ng\_LogSN: 2,00000 PB: 0,130 ng\_LogPB: 0,88606  
AS: 0,005 ng\_LogAS: 2,30103 SB: 0,044 ng\_LogSB: 1,35655  
AG: 0,154 ng\_LogAG: 0,81248 NI: 0,022 ng\_LogNI: 1,65758  
BI: 0,022 ng\_LogBI: 1,65758 FE: 0,050 ng\_LogFE: 1,30103  
DOUBLEANALAYSES:  
INVENTORYNo: Straubing 1361

PCA\_factor\_1: 0,2411400 PCA\_factor\_2: -1,6806700  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 40 Randomised: 1,59  
Metal\_groups: Silver-antimony-copper (high)  
LITERATURE: Heyd 2000b, 80.  
COMMENT:

ANo: 32319 LABNo: FMZM0394

FIND\_PLACE: Buttstedt, 'Ziegeleigrube Florstedt', Kr. Weimar

SITE: Grabfund

FEATURE: Grave NAT: D DIST: TH AREA: 103  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 837 LATITUDE: 51,067 LONGITUDE: 11,367  
AM: XRF MG: 30 CU: 97,000  
SN: 0,014 ng\_LogSN: 1,85387 PB: 0,140 ng\_LogPB: 0,85387  
AS: 1,970 ng\_LogAS: -0,29447 SB: 0,040 ng\_LogSB: 1,39794  
AG: 0,202 ng\_LogAG: 0,69465 NI: 0,126 ng\_LogNI: 0,89963  
BI: 0,022 ng\_LogBI: 1,65758 FE: 0,050 ng\_LogFE: 1,30103  
DOUBLEANALAYSES:  
INVENTORYNo: Weimar 6327

PCA\_factor\_1: -0,3364400 PCA\_factor\_2: -1,6886500  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 15  
CLUSTER\_No\_IV 52 Randomised: 0,27  
Metal\_groups: Arsenic-copper (high)  
LITERATURE: Wüstemann 1995, 91 f., No. 200; RGK Frankfurt.  
COMMENT:

ANo: 32328 LABNo: FMZM0403

FIND\_PLACE: Mühlhausen, 'Aktivistenring', Lkr. Mühlhausen

SITE: Grabfund

FEATURE: Grave NAT: D DIST: TH AREA: 103  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 6910 LATITUDE: 51,213 LONGITUDE: 10,444  
AM: XRF MG: 26 CU: 99,000  
SN: 0,010 ng\_LogSN: 2,00000 PB: 0,040 ng\_LogPB: 1,39794  
AS: 0,420 ng\_LogAS: 0,37675 SB: 0,096 ng\_LogSB: 1,01773  
AG: 0,109 ng\_LogAG: 0,96257 NI: 0,088 ng\_LogNI: 1,05552  
BI: 0,016 ng\_LogBI: 1,79588 FE: 0,050 ng\_LogFE: 1,30103  
DOUBLEANALAYSES: #FMZM0303  
INVENTORYNo: Mühlhausen III/62/1c

PCA\_factor\_1: -0,2594100 PCA\_factor\_2: -1,4001100  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 15  
CLUSTER\_No\_IV 33 Randomised: -0,18  
Metal\_groups: Arsenic-copper with Impurities  
LITERATURE: Wüstemann 1995, 92, No. 204; RGK Frankfurt.  
COMMENT:

ANo: 33576 LABNo: FMZM1654

FIND\_PLACE: Landau a. d. Isar, 'Landauer Feld', Lkr. Dingolfing-Landau

SITE: Grab 7/92

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215  
OBJECT: Dagger, tanged

PLACENo: 6879 LATITUDE: 48,682 LONGITUDE: 12,700  
AM: XRF MG: 26 CU: 99,000  
SN: 0,005 ng\_LogSN: 2,30103 PB: 0,260 ng\_LogPB: 0,58503  
AS: 0,134 ng\_LogAS: 0,87290 SB: 0,024 ng\_LogSB: 1,61979  
AG: 0,239 ng\_LogAG: 0,62160 NI: 0,010 ng\_LogNI: 2,00000  
BI: 0,025 ng\_LogBI: 1,60206 FE: 0,050 ng\_LogFE: 1,30103  
DOUBLEANALAYSES:  
INVENTORYNo: Kreisarch. Dingolfing-Landau 130/92

PCA\_factor\_1: 0,2310500 PCA\_factor\_2: -1,9185600  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 15  
CLUSTER\_No\_IV 51 Randomised: -1,07  
Metal\_groups: Arsenic-lead-copper  
LITERATURE: Kreiner 2003  
COMMENT:

ANo: 33577 LABNo: FMZM1655

FIND\_PLACE: Landau a. d. Isar, 'Landauer Feld', Lkr. Dingolfing-Landau

SITE: Grab 9/92

FEATURE: Grave NAT: D DIST: BA AREA: 66  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810  
OBJECT: Awl

PLACENo: 6879 LATITUDE: 48,682 LONGITUDE: 12,700  
AM: XRF MG: 21 CU: 95,000  
SN: 3,900 ng\_LogSN: -0,59106 PB: 0,100 ng\_LogPB: 1,00000  
AS: 0,005 ng\_LogAS: 2,30103 SB: 0,077 ng\_LogSB: 1,11351  
AG: 0,265 ng\_LogAG: 0,57675 NI: 0,019 ng\_LogNI: 1,72125  
BI: 0,014 ng\_LogBI: 1,85387 FE: 0,050 ng\_LogFE: 1,30103  
DOUBLEANALAYSES:  
INVENTORYNo: Kreisarch. Dingolfing-Landau 136/92

PCA\_factor\_1: -0,3980200 PCA\_factor\_2: -1,4342300  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 40 Randomised: 0,67  
Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)  
LITERATURE: Kreiner 2003  
COMMENT:

ANo: 100010 LABNo: HDM294

FIND\_PLACE: Giengen a. d. Brenz, 'Sachsenhausen', Klr. Heidenheim

SITE: Grab

FEATURE: Grave NAT: D DIST: BW AREA: 62  
CULT: BBC PER: 35 TYPE: 806 TYPE\_2: 810  
OBJECT: Awl

PLACENo: 7213 LATITUDE: 48,623 LONGITUDE: 10,245  
AM: OES MG: 10 CU: 0,000  
SN: 0,035 ng\_LogSN: 1,45593 PB: 0,000 ng\_LogPB: 3,50000  
AS: 0,890 ng\_LogAS: 0,05061 SB: 0,290 ng\_LogSB: 0,53760  
AG: 0,660 ng\_LogAG: 0,18046 NI: 0,120 ng\_LogNI: 0,92082  
BI: 0,000 ng\_LogBI: 3,50000 FE: 0,200 ng\_LogFE: 0,69897  
DOUBLEANALAYSES:  
INVENTORYNo:

PCA\_factor\_1: -1,0612200 PCA\_factor\_2: 0,1011400  
CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 7 CLUSTER\_No\_III: 20  
CLUSTER\_No\_IV 70 Randomised: 0,68  
Metal\_groups: Arsenic-copper with Impurities  
LITERATURE: Matuschik 2004, 296, No. 6.  
COMMENT: analysis has been published by Krause 1988, 276 f.

# Catalogue of the dataset of trace element analyses of Bell Beaker metal finds

ANo: 100028 LABNo: FRA3937

FIND\_PLACE: Praha-Kopylisý

SITE: Grave

FEATURE: Grave NAT: CZ DIST: PR AREA: 112  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 7220 LATITUDE: 50,100 LONGITUDE: 14,450

AM: XRF MG: 54 CU: 99,240

SN: 0,000 ng\_LogSN: 3,50000 PB: 0,120 ng\_LogPB: 0,92082  
AS: 0,000 ng\_LogAS: 3,50000 SB: 0,000 ng\_LogSB: 3,50000  
AG: 0,190 ng\_LogAG: 0,72125 NI: 0,450 ng\_LogNI: 0,34679  
BI: 0,000 ng\_LogBI: 3,50000 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Museum Hl. mesta Prahy

PCA\_factor\_1: 0,3706600 PCA\_factor\_2: 0,0692200

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 17  
CLUSTER\_No\_IV 41 Randomised: -0,16

Metal\_groups: Tin-rich-copper (incl. Ag, Sb etc)

LITERATURE: Frana et al. 1995, 139.

COMMENT:

ANo: 100107 LABNo: Halle 20

FIND\_PLACE: Halle-Trotha, Stkr. Halle

SITE: Grab 3

FEATURE: Grave NAT: D DIST: Sa AREA: 103  
CULT: BBC PER: 35 TYPE: 215 TYPE\_2: 215

OBJECT: Dagger, tanged

PLACENo: 7244 LATITUDE: 51,524 LONGITUDE: 11,963

AM: MG: 30 CU: 97,000

SN: 0,047 ng\_LogSN: 1,32790 PB: 0,070 ng\_LogPB: 1,15490  
AS: 1,930 ng\_LogAS: -0,28556 SB: 0,034 ng\_LogSB: 1,46852  
AG: 0,288 ng\_LogAG: 0,54061 NI: 0,010 ng\_LogNI: 2,00000  
BI: 0,124 ng\_LogBI: 0,90658 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Halle 55:56c

PCA\_factor\_1: -0,3393600 PCA\_factor\_2: -1,1775500

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43 Randomised: 0,55

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Jacobs 1989, 9.

COMMENT:

ANo: 100127 LABNo: Halle 43

FIND\_PLACE: Westerhausen, Lkr. Harz

SITE: Grab

FEATURE: Grave NAT: D DIST: Sa AREA: 103  
CULT: BBC PER: 35 TYPE: 501 TYPE\_2: 500

OBJECT: Sheet metal

PLACENo: 7255 LATITUDE: 51,806 LONGITUDE: 11,055

AM: MG: 29 CU: 98,000

SN: 0,005 ng\_LogSN: 2,30103 PB: 0,010 ng\_LogPB: 2,00000  
AS: 1,190 ng\_LogAS: -0,07555 SB: 0,081 ng\_LogSB: 1,09151  
AG: 0,005 ng\_LogAG: 2,30103 NI: 0,260 ng\_LogNI: 0,58503  
BI: 0,148 ng\_LogBI: 0,82974 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Halle 2004:28426

PCA\_factor\_1: -0,1733300 PCA\_factor\_2: -0,8463900

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43 Randomised: 0,57

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Dalidowski 2006.

COMMENT:

ANo: 100128 LABNo: Halle 43

FIND\_PLACE: Westerhausen, Lkr. Harz

SITE: Grab

FEATURE: Grave NAT: D DIST: Sa AREA: 103  
CULT: BBC PER: 35 TYPE: 501 TYPE\_2: 500

OBJECT: Sheet metal

PLACENo: 7255 LATITUDE: 51,806 LONGITUDE: 11,055

AM: MG: 29 CU: 98,000

SN: 0,005 ng\_LogSN: 2,30103 PB: 0,010 ng\_LogPB: 2,00000  
AS: 1,390 ng\_LogAS: -0,14301 SB: 0,080 ng\_LogSB: 1,09691  
AG: 0,005 ng\_LogAG: 2,30103 NI: 0,250 ng\_LogNI: 0,60206  
BI: 0,176 ng\_LogBI: 0,75449 FE: 0,000 ng\_LogFE: 3,50000

DOUBLEANALAYSES:

INVENTORYNo: Halle 2004:28430

PCA\_factor\_1: -0,1671000 PCA\_factor\_2: -0,8879200

CLUSTER\_No\_I: 2 CLUSTER\_No\_II: 6 CLUSTER\_No\_III: 18  
CLUSTER\_No\_IV 43 Randomised: 0,24

Metal\_groups: Arsenic-copper with Impurities

LITERATURE: Dalidowski 2006.

COMMENT: