

Appendix 1. *Homo sapiens sapiens* male samples of the Neolithic to modern times from all over the world<sup>13</sup>

Original sample	Label of the sample	Label of the pooled sample containing the relevant sample	Site (reference)
1 Oshmag-i	OHMG1	Oshmag-i cave site, Abashiri, Hokkaido (Ishida et al., 1986)	
2 Monzaki	MUGOT1	Monzaki Cave, Iwate (Kanbara et al., 1992)	
3 Myouga Cave	MYON1	Myouga Cave (Ishida et al., 1999)	
4 Toda (Sakura)	TOD1 S	Toda, Sakuma (Sakura et al., 2011)	
5 Tochihara	TOCHB	Tochihara rock-shelter, Nagano (Kohara et al., 2011)	
6 Odake	ODAKE	Odake, Toyama (Sakane et al., 2014)	
7 Matsukawa	MAWK1	JOMIWIM1	Matsukawa, Ishikawa (Yamaguchi et al., 2004)
8 Mitaki 26	MIT26	Mitaki 26, Iwate (Yamaguchi et al., 2004)	
9 Isogampi	ISVMI	JOMIWIM1	Isogampi, Shiga (Ieda and Kanayama, 1986)
10 Hashima	HASHM1	JOMIWIM1	Hashima, Okuyama (Hasebe, 1984)
11 Hikozaki	HIKZK	Hikozaki, Okuyama (Sunuki, 1981)	
12 Kamikurowa	KAMKR	JOMIWIM1	Kamikurowa rock-shelter, Ehime (Nakabashi and Okazaki, 2009)
13 Hidemoto	HIDE1	Hidemoto, Oita (Nishi, 1972)	
14 Todoroki	TOORK	Todoroki, Kameoka (Kaufu et al., 1998)	
15 Iwashita	IWAHS1	JOMIWIM1	Iwashita Cave, Nagasaki (Kaufu et al., 2017a)
16 Shimomoyatoma 4	SHIMM4	JOMIWIM1	Shimomoyatoma 4, Nagasaki (Kaufu et al., 2017b)
17 Tomonari	TONAR1	JOMIWIM1	Tomonari, Rehoboth (Kaufu et al., 2001)
18 Tomobir	TOHBR	JOMIWIM1	Tomobir, eastern Hokkaido (Hamano et al., 1982)
19 Takasago (Hanbara)	TKS1 H	JOMIWIM1	Takasago, Abeta, Hokkaido (Hamano et al., 1988)
20 Takasago (Ishida)	TKS1 I	JOMIWIM1	Takasago, Abeta, Hokkaido (Ishida et al., 1987)
21 Katori No. 3	KAIT3	JOMIWIM1	Katori No. 3 (Wate (Ogata and Moriwaki, 1971))
22 Eboshi	EBOSH1	JOMIWIM1	Eboshi, Iwate (Yamaguchi et al., 2001); Yamaguchi, 1983
23 Miyata	MIYAT1	JOMIWIM1	Miyata, Iwate (Hayashi et al., 1981)
24 Tagara	TAGAR1	JOMIWIM1	Tagara, Miyagi (Dodo and Suzuki, 1986)
25 Aoshima	AOSH1	JOMIWIM1	Aoshima, Miyagi (Ikeda and Shigehara, 1975)
26 Aoshima No. 1	AOSH1	JOMIWIM1	Aoshima No. 1, Miyagi (Dodo, 1981)
27 Kawachi-no-Hibiki	KAWHD	JOMIWIM1	Kawachi-no-Hibiki, Chiba (Ogata and Shigehara, 1975)
28 Saitama	SATSI	JOMIWIM1	Saitama, Miyagi (Dodo, 1981)
29 Satochaya 98-1	STRI1	JOMIWIM1	Satochaya 98-1, Miyagi (Nara et al., 2000)
30 Sangani	SGNQ1	JOMIWIM1	Sangani, Fukushima (Hamura and Uchida, 1988; Baba, 1988)
31 Minamisaito	MINSA1	JOMIWIM1	Minamisaito shell-mound, Ibaraki (Baba et al., 1989)
32 Nakats	NAKTS1	JOMIWIM1	Nakats, Ibaraki (Baba, 1989)
33 Wakami 1	WAKU1	JOMIWIM1	Wakami 1, Iwate (Kitayama and Matsui, 1999)
34 Horinouchi	HRNCH	JOMIWIM1	Horinouchi, Chiba (Sonda et al., 1957)
35 Honda-Takada	HOND1	JOMIWIM1	Honda-Takada shellmound, Chiba (Ieda, 1957)
36 Tanakadono	TNKD1	JOMIWIM1	Tanakadono, Chiba (Ogata et al., 1971)
37 Ueda	UEDA1	JOMIWIM1	Ueda, Nagano (Kaufu et al., 1998)
38 Kozai (Sunuki)	KSD1 S	JOMIWIM1	Kozai, Chiba (Ogata et al., 1976)
39 Kousaku	KOSAK1	JOMIWIM1	Kousaku, Chiba (Kojima et al., 1985)
40 Kuakuri	KSKAR1	JOMEKNTM	Kuakuri, Chiba (Hiramoto and Minguichi, 1986)
41 Kaumera	KITMB	JOMCBHM	Kaumera (excluding No. 308), Nagano (Shigehara, 1993)
42 Shishio	SHISH1	JOMIWIM1	Shishio, Nagano (Yamaguchi et al., 1986)
43 Do-no-Kanaka	DONOK	JOMCBHM	Do-no-Kanaka, Saitama (Ogata and Morikawa, 1977)
44 Shijimizuka	SHMZ1	JOMIZTM	Shijimizuka, Shizuoka (Hirata, 1984)
45 Yoshiko	YOSH1	JOMIZTM	Yoshiko, Aichi (Karako, 1928; Ohri, 1935; Ishikawa, 1931)
46 Iwazumi	IKAZ1	JOMIZTM	Iwazumi, Aichi (Sunuki et al., 1972; Baba et al., 1988)
47 Iwaoji	IWAJ1	JOMIZTM	Iwaoji, Aichi (Sunuki et al., 1972)
48 Totsuno	TSUKM1	JOMNSVM	Totsuno, Okuyama (Kiyono and Miyamoto, 1926; Kyono and Hirai, 1928a, b)
49 Tsubue No. 3	TSUB3	JOMNSVM	Tsubue No. 3, Okayama (Hasebe, 1981)
50 Tashiro-Yosueka	TAIS1	JOMNSVM	Tashiro-Yosueka, Hiroshima, Saitama and Fukushima, 1976
51 Toyomatsu-Dome	TOYM1	JOMNSVM	Toyomatsu-Dome, Iwate (Kyushu D.I.K.2K, 1988)
52 Yamaoka	YAMA1	JOMNSVM	Yamaoka shell-mound, Ibaraki (Kyushu D.I.K.2K, 1988)
53 Fukaura	FUKOK1	JOMKSYM	Fukaura, Koya, and Kuroki shell-mounds, Fukuoka (Kyushu D.I.K.2K, 1980)
54 Hepi (Late Jomon)	HEGIL	JOMKSYM	Hepi Cave, Oita (Naiko, 1977)
55 Kakiwara	KAKW1	JOMKSYM	Kakiwara, Kumamoto (Masunaga et al., 1967)
56 Ataka	ATAKA1	JOMKSYM	Ataka, Kumamoto (Ochiai, 1967)
57 Goto	GOTO1	JOMKSYM	Goto, Kumamoto (Ochiai, 1967)
58 Shitach	SHIT1	JOMKSYM	Shitach-Nishio, Goshikawajima, Okinawa (Matsumura et al., 1992)
59 Shitach 106	SHIT106	JOMKSYM	Shitach-Nishio 106, Goshikawajima, Okinawa (Dai, 2012)
60 Upper Lena River	ULENA	JOMNSVM	Upper Lena River, Siberia (Hedrick, 1924)
61 Angara River	ANGRA	JOMNSVM	Angara River, Siberia (Hedrick, 1944)
62 Lake (Ishida)	LAKI	JOMNSVM	Lake, northern Siberia (Ishida et al., 2013)
63 Yenisey	YONG1	JOMNSVM	Yenisey, Siberia (Sun, Wu and Zhang, 1985)
64 Yangtze	YANG1	JOMNSVM	Yangtze, China (Han, 1990)
65 Baqij	BAQJ1	NEOSHNMX	Baqij, Shaanxi, China (Yen et al., 1960)
66 Banpo	BANPO1	NEOSHNMX	Banpo, Shaanxi, China (Yen et al., 1960)
67 Huanren	HUAN1	NEOSHNMX	Huanren, Liaoning, China (Yen et al., 1960)
68 Honghai	HENGZ1	NEOSHNMX	Honghai, Liaoning (Institute of Archaeology [1977] in Wu and Zhang, 1985)
69 Shigu	SHIGU1	NEOHENNM	Shigu, Henan, China (Wu and Wei, 1985)
70 Mioudogn	MLAD1	NEOHENNM	Mioudogn, Henan, China (Wu and Wei, 1985)
71 Xawanggang	XAWN1	NEOHENNM	Xawanggang, Henan, China (Wu and Wei, 1985)
72 Danyang	DANY1	NEOHENNM	Danyang, Henan, China (Wu and Wei, 1985)
73 Hush-hou	HSIH1	NEOSINDNM	Hush-hou, Shandong, China (Yen, 1972) in Han and Pan, 1979
74 Fangxian	FANGX1	NEOSINDNM	Fangxian, Henan (Zhang et al., 1982) in Wu and Zhang, 1985
75 Longquzheng	LONG1	NEOSINDNM	Longquzheng, Jiangsu, China (Han, 1999)
76 Gaoming M-02	GAOM2	NEOSINDNM	Gaoming M-02, Guangdong (Meng et al., 2017)
77 Tianshan	TIAN1	NEOSINDNM	Tianshan, Xinjiang (Han et al., 1979)
78 Zhenpu	ZHENP1	NEOSINDNM	Zhenpu, Guizhou, China (Zhang et al., 1977)
79 Heding	HEING1	NEOSINDNM	Heding, Guangdong, China (Han and Pan, 1982)
80 Unjii III	UNG3-3	NEONKREM	Unjii III, North Korea (Imamura, 1932)
81 Unjii I	UNG3-1	NEONKREM	Unjii I, North Korea (Imamura, 1932)
82 Isoniwa 3A	BONVA1	NEONKREM	Bonniwa 3A, Niigata (Ishida, 1944)
83 Bon Kai	BANKA1	NEONKREM	Bon Kai, Thabond (Savchynichen et al., 1969)
84 Wajidji I (Jacob)	WJ1	NEONKREM	Wajidji I, Java, Indonesia (Jacob [1967] in Van Heeckeren, 1972, and Sturm, 1995)
85 Lake Nische	LNTC1	NEONKREM	Lake Nische, New South Wales, Australia (Brown, 1989)
86 Okinj Island	OLENI	NEONKREM	Okinj Island, Okinawa (Ochiai, 1967; Ochiai and Ochiai, 1991)
87 Tz'utujil	TZUT1	NEONKREM	Tz'utujil, Lajta (Denesova [1975] in Černý, 1991) and in Schwidetzky and Rösing, 1989
88 British	BRITS	NEONKREM	British, England (Mezard [1930] in Mezard, 1928)
89 Tyrolean Ice Man	ICEM1	NEONKREM	Tyrolean Ice Man, Ötztal (Seidler et al., 1992; Salviati and Stellberg-Carion, 1994)
90 Legenda Vir	LEPN1	NEOSRBM	Legenda Vir (Group 1), Serbia (Zofiman, 1983)
91 Vasac	VASAC1	NEOSRBM	Vasac, Slovakia (Zofiman, 1983)
92 Gerzensee	GERZC1	NEOSRBM	Gerzensee, Switzerland (Niermann, 1989) in Schwidetzky and Rösing, 1989
93 El Calado No. 12	ELC12	NEOSRBM	El Calado No. 12, Valencia, Spain (Sanz-Pérez et al., 1995)
94 Valenca	VALEN1	NEOSRBM	Valenca, Spain (Fuster [1957] in Chama, 1976)
95 Anatal	ANATL1	NEOSRBM	Anatal, Turkey (Füredi [1957] in Chama, 1976)
96 Aski	ASKI1	NEOSRBM	Aski, Karabük (Tuncer [1962] in Chama, 1976)
97 Afukus-bou-Rhummel	AFLAO1	NEOSRBM	Afukus-bou-Rhummel, Algeria (Valès [1952] in Schwidetzky and Rösing, 1989)
98 S. Egyptian	SE-EGY1	NEOSRBM	S. Egyptian, Badari, Upper Egypt (Stoeckli, Derry, Morant [1925-31] in Angel, 1944)
99 Naqada	NAQAD1	NEOSRBM	Naqada, Egypt (Fewster in Peacock and Davis, 1924)
100 Brown Valley Man	BROWN1	NEOSRBM	Brown Valley Man, Missouri, USA (Jenks [1937] in Bass, 1976)
101 Red Crow	RED-C1	NEOSRBM	Red Crow, Colorado (Jenks [1937] in Bass, 1976)
102 Osteokra	OSTK1	NEOSRBM	Osteokra, Greece (Zoëfiman, 1983)
103 Bonzuya V-2	BOZY1	NEPIKKDM	Bonzuya V-2, Ebeusu, Hokkaido (Yamagishi, 1963a)
104 Koboro Cave	KOBOR1	NEPIKKDM	Koboro Cave, southwestern Hokkaido (Takigawa et al., 2011)
105 Uso (Zoku-Jomon)	USU1-Z	NEPIKKDM	Uso (Zoku-Jomon), southeastern Hokkaido (Kanda, 1978)
106 Teshio	TESH1	NEPIKKDM	Teshio, Hokkaido (Oba et al., 1978)
107 Misami-Uso 7	MUS7	NEPIKKDM	Misami-Uso 7, Doseki, Hokkaido (Misaki et al., 1984)
108 Ourayuna	OURAY1	NEPIKKDM	Ourayuna 4, Kanagawa (Sunuki, 1997)
109 Nagasawa	NAGSW1	YAYOTIKM	Nagasawa, Shizuoka (Sakura and Yamaguchi, 1981)
110 Hokaji	HOKAJ1	YAYOTIKM	Hokaji, Aichi (Ikeeda, 1993a)
111 Arakuramiji	ARAK1	YAYOTIKM	Arakuramiji, Aichi (Ikeeda, 1993a)
112 Koura	KOUR1	YAYOTIKM	Koura, Shizuoka (Kuroda, 1988)
113 Doguhama	DOGH1	YAYOTIKM	Doguhama, Yamaguchi (Kyushu D.I.K.2K, 1988)
114 Nakahama	NAKHN1	YAYOTIKM	Nakahama, Yamaguchi (Kyushu D.I.K.2K, 1988)
115 Yoshihohama	YOSH1	YAYOTIKM	Yoshihohama, Yamaguchi (Kyushu D.I.K.2K, 1988)
116 Kameyama	KAME1	YAYOTIKM	Kameyama, Iwate (Kondo et al., 1985)
117 Macchayama	MAEDA1	YAYOTIKM	Macchayama, Iwate (Kondo et al., 1987)
118 Shumachii	SHIMC1	YAYOTIKM	Shumachii, Fukushima (Kyushu D.I.K.2K, 1988; Nakashita and Nagai, 1987a)
119 Arita	ARITA1	YAYOTIKM	Arita, Fukushima (Nakashita, 1991a)
120 Hara	HARA1	YAYOTIKM	Hara, Fukushima (Kyushu D.I.K.2K, 1988)
121 Kurokami-kogen	KURK1	YAYOTIKM	Kurokami-kogen, Nagano (Kyushu D.I.K.2K, 1988)
122 Ichinotsu	ICHNT1	YAYOTIKM	Ichinotsu, Fukui (Kyushu D.I.K.2K, 1988)
123 Yoshigora	YOSH1A	YAYOTIKM	Yoshigora, Fukui (Kyushu D.I.K.2K, 1988)
124 Nagaochi	NAGAO1	YAYOTIKM	Nagaochi, Fukui (Nakashita, 1990)
125 Hasegawa	HASE1	YAYOTIKM	Hasegawa, Fukui (Kyushu D.I.K.2K, 1988)
126 Kurohama	KURO1	YAYOTIKM	Kurohama, Fukui (Kyushu D.I.K.2K, 1988)
127 Oba-Kubo No. 1	OBIA-1	YAYOTIKM	Oba-Kubo No. 1, Iwate (Nakashita, 1998)
128 Kochi Jigū	KOCHO1	YAYOTIKM	Kochi Jigū, Fukuka (Nakashita, 1998)
129 Tuskashikubashita	TSKSK1	YAYOTIKM	Tuskashikubashita, Fukuka (Nakashita, 1997)
130 Fukaura	FKO1	YAYOTIKM	Fukaura, Iwate (Kondo et al., 1984)
131 Fukaura, Part 2	FKO2	YAYOTIKM	Fukaura, Iwate, Hiraizumi, Noborito, Okawa, Shimoori, Shimohe, Shodare, and Sudare sites, Fukaura (Kyushu D.I.K.2K, 1988)
132 Fukaura, Part 3	FKO12	YAYOTIKM	Fukaura, Kasuga, and Kasuga-Noborito sites, Fukaura (Kyushu D.I.K.2K, 1988)
133 Fukaura, Part 4	FKO4	YAYOTIKM	Kuma No. 1, Kurayama, Matsumaya, Miewa, Miyazono, Morono, Moroku, Mukadani-Miura, Nakamura, and Nakamura sites, Fukaura (Kyushu D.I.K.2K, 1988)
134 Fukaura, Part 5	FKO5	YAYOTIKM	Ono-koishi, Nakamura, and Nakamura sites, Fukaura (Kyushu D.I.K.2K, 1988)
135 Fukaura, Part 6	FKO6	YAYOTIKM	Ono-koishi, Nakamura, Noborito, Okawa, Shimoori, Shimohe, Shodare, and Sudare sites, Fukaura (Kyushu D.I.K.2K, 1988)
136 Mitsu	MIT14	YAYOSAGM	Mitsu, Saga (Uchima, 1956; Kyushu D.I.K.2K, 1988)
137 Otomo (1st-4th exc.)	OTIM14	YAYOSAGM	Otomo (1st-4th excavations), Saga (Matsushita in Nakashita, 2003; Matsushita [1981] in Nakashita, 1990)
138 Otomo (5th-6th exc.)	OTMS6	YAYOSAGM	Otomo (5th and 6th excavations), Saga (Matsushita in Nakashita, 2003; Matsushita [1981] in Nakashita, 1990)
139 Sags, Part 1	SAGA1	YAYOSAGM	Aguchi, Asahi, Kamimori, Kiridori, Kyuma, and Matsuda sites, Saga (Kyushu D.I.K.2K, 1988)
140 Sags, Part 2	SAGA2	YAYOSAGM	Aguchi, Asahi, Kamimori, Kiridori, Kyuma, and Matsuda sites, Saga (Kyushu D.I.K.2K, 1988)
141 Nishimura	NISH1	YAYONAGM	Nishimura, Hiraizumi, and Nakamura (Kyushu D.I.K.2K, 1988)
142 Nagasaki	NAGSK1	YAYONAGM	Fukash, Hamao, and Matsuba sites, Nagasaki (Naito, 1971)
143 Tanowaki	TANW1	YAYOTANM	Tanowaki, Tane-gashima, Kagoshima (Takemoto, 2009)
144 Toronmai	TOBNM	YAYOTANM	Toronmai, Tanegashima, Kagoshima (Kyushu D.I.K.2K, 1988)
145 Hirata	HIRTI	YAYOTANM	Hirata, Tanegashima, Kagoshima (Kyushu D.I.K.2K, 1988)
146 Hirata 2	HIRT2	YAYOTANM	Hirata, Tanegashima, Kagoshima (Kyushu D.I.K.2K, 1988)
147 Elxen	EKEN1	YAYOTANM	Elxen, Russia (Ishida, 1997; Kulikov et al., 2013)
148 Panobor	PIANO1	YAYOTANM	Panobor, Kuban, Russia (Akimova [1968] in Schwidetzky and Rösing, 1975)
149 Tastyk	TASTY1	YAYOTANM	Tastyk, Kuban, Russia (Akimova [1961] and Zalkind [1959] in Schwidetzky and Rösing, 1975)
150 Tagar	TAGAR1	YAYOTANM	Tagar, southern Siberia (Ishida, 1997)
151 Zolotukha Balka	ZOLJT	ZARM1	Zolotukha Balka, Ukraine (Kondakova [1968] in Schwidetzky, 1972)
152 Samiratins	SARM1	SARTMT	Samiratins, Ukraine (Fisichella [1968], Gobug [1959] and Kondakova [1968] in Schwidetzky and Rösing, 1975)
153 Phangoria	PHANG1	PHANG	Phangoria, Russia (Fisichella [1968], Gobug [1959] and Kondakova [1968] in Schwidetzky and Rösing, 1975)
154 Neopoli Skalki	NEPLSK1	NEPLSK	Neopoli Skalki, Greece (Kotsopoulos [1964] in Schwidetzky and Rösing, 1975)
155 Vassilias Aligiou	VASS1	VASS	Vassilias Aligiou, Chania (Panagiotis, 1987)
156 Wusun	WUSUN1	WUSUN	Wusun, Xinjiang, China (Han and Pan, 1987)
157 Wuhan	WUBAO1	WUBAO	Wuhan (Cao-acad group), Xiangjiang, China (Han and Pan, 1987)
158 Hunmen	HUNMN1	HUNNN	Hunmen, Kyrgyzstan (Xia et al., 1996)
159 Chuvalu	CHAWU1	CHAWH	Chuvalu, 4 cemetery, Xiangjiang, China (Han et al., 1999)
160 Gumi Guo	GUMUG1	GUMUG	Gumi Guo, Ningxia, China (Han, 1986)
161 Gamu Guo	GAMUG1	GAMUG	Gamu Guo, Ningxia, China (Han, 1986)
162 South Tajikistan	STJAD1	STJAD	South Tajikistan (Kajiwara [1961] in Schwidetzky and Rösing, 1975)
163 Wayao	WAYAO1	WAYAO	Wayao, China (Shao et al., 1998)
164 Shangpana	SHANP1	SHANP	Shangpana, Xizang (Shao et al., 1998)
165 Daosi	DAOS1	DAOS	Daosi, Anhui, China (Shao et al., 1998)
166 Baotou Chang	BATO1	BATO	Baotou Chang, Inner Mongolia (Shao et al., 1998)
167 Ban Chang (D. & D.)	BNC P	BNC P	Ban Chang (D. & D.), Northeast Thailand (Pietraszewski and Douglas, 2002)
168 Murry River	MURRY1	MURRY	Murry River, Australia (Brown, 2001)
169 Sweden	SWED1	SWEDS	Sweden (Rötterud [1960] and Pauli [1912] in Mount, 1928)
170 Klövström	KLOV1	KLOV	Klövström, Sweden (Rötterud [1960] and Pauli [1912] in Mount, 1928)
171 English, Midlands and north of England	ENGL1	ENGLS	English, Midlands and north of England (Mount [1926] in Mount, 1928)
172 British	BRIT1	BRITS	British, south of England (Mount [1926] in Mount, 1928)
173 Schidetzky	SCHID1	SCHID	Schidetzky, Germany (Fischer [1961] in Schwidetzky and Rösing, 1975)
174 West Germany	WEGR1	WEGR	West Germany (Fischer [1961] in Schwidetzky and Rösing, 1975)
175 W.Germany	WG-GER1	WG-GER	W.Germany (Fischer [1961] in Schwidetzky and Rösing, 1975)
176 La Baie, Gironde, France (Rapet [1973] in Schwidetzky and Rösing, 1975)	LAB1	LA BAIE	
177 Gauls	GAUL1	GAULS	Gauls, France (Rapet [1973] in Schwidetzky and Rösing, 1975)
178 Gauls, Roman (Rapet [1973] in Schwidetzky and Rösing, 1975)	GAUL2	GAULS	
179 Paris	PARIS1	PARIS	Paris, France

301	Sakovo	SALTY	Sakovo, Russia (Alekseev [1962] and Zvezov [1967] in Rosing and Schwedterzy, 1977)
302	Sarkel 1	SRKLJ	Sarkel (grave yard), Russia (Ginzburg [1963], Festej [1963], and Vuk [1963] in Rosing and Schwedterzy, 1977)
303	Sarkel 2	SRKL2	Sarkel (great tumulus), Russia (Ginzburg [1951] in Rosing and Schwedterzy, 1977)
304	Pojmane 1	POLJ1	Pojmane, Pereslavl, Ukraine (Alekseev [1966, 1973] in Rosing and Schwedterzy, 1977)
305	Pojmane 2	POLJ2	Pojmane, Chernigov, Ukraine (Alekseev [1966, 1973] in Rosing and Schwedterzy, 1977)
306	Ukraine	UKRAI	Ukraine (Kondakovska [1958, 1972], Debev [1948], and Zvezov [1967] in Schwedterzy and Rosing, 1977)
307	Skalotse	SKALI	Skalotse III, Ukraine (Zvezov [1973] in Rosing and Schwedterzy, 1977)
308	Eski-Kermen	ESKIK	Eski-Kermen, Ukraine (Debev [1948] in Rosing and Schwedterzy, 1977)
309	Samurhan-Dolne	INDU	Samurhan-Dolne (Samurhan-Dolne) (Debev [1948] in Rosing and Schwedterzy, 1977)
310	Czerny Goths	CRGO	Czerny Goths, Chernovtsy (Debev [1948] in Rosing and Schwedterzy, 1977)
311	Turks 1	TURKI	Turks (nomad), Akkoy (Debev [1948] in Rosing and Schwedterzy, 1977)
312	Turks 2	TURK2	Turks (nomad), Tianshan (Ginzburg [1954] and Mikalskevaj [1959] in Rosing and Schwedterzy, 1977)
313	Goldene Horde	GOLDN	Goldene Horde, Lower Volga (Tolmova [1949] in Schwedterzy and Rosing, 1975)
314	Southern S-Arara	SARA	Southern Arara and region (Tolmova [1959] and Ginzburg and Tolmova [1959] in Schwedterzy and Rosing, 1975)
315	Tok-kala	TOK-K	Tok-kala (Ossurian) (Chodzajew [1978] in Ginzburg and Tolmova [1972], further in Rosing and Schwedterzy, 1977)
316	Mingečaur	MINGE	Mingečaur (wood- and catcus-grave graves) (Kastanov [1960] in Schwedterzy and Rosing, 1977)
317	Bajram AII	BAJRA	Bajram AII, Turkmenistan (Tolmova [1949] in Schwedterzy and Rosing, 1975)
318	Kyratulais	KIVUT	Kyratulais, Latvia (Denisova [1975] in Schwedterzy and Rosing, 1975)
319	Ostroje Lednicki	OSTRO	Ostroje Lednicki, Poland (Wolek [1953] in Rosing and Schwedterzy, 1977)
320	Cedynie	CEDYN	Cedynie, Poland (Wolek [1971] in Rosing and Schwedterzy, 1977)
321	Wielki	WIELC	Wielki, Poland (Wolek [1971] in Rosing and Schwedterzy, 1977)
322	Lubusz	LAJHOV	Lubusz, Poland, Przemysl, Czech (Chodzajew [1978] in Rosing and Schwedterzy, 1977)
323	Lubice nad Czilinou	LJIBC	Lubice nad Czilinou, Czech (Hanáková [1969] in Rosing and Schwedterzy, 1977)
324	Mikulčice 2	MIKU2	Mikulčice 2, Czech (Stokol [1967] in Rosing and Schwedterzy, 1977)
325	Zetkov	ZELOV	Zetkov, Slovakia (Slobáková and Hanáková [1974] in Rosing and Schwedterzy, 1977)
326	Nove Zámky	NOV-Z	Nove Zámky, Slovakia (Slobáková and Hanáková [1965] and Vladarova and Hanák [1970] in Rosing and Schwedterzy, 1977)
327	Holice	HOLIA	Holice, Slovakia (Mala [1965] in Rosing and Schwedterzy, 1977)
328	Fehér-há	FEHER	Fehér-há, Hungary (Lipót and Vámos [1969] in Rosing and Schwedterzy, 1977)
329	Alattyán	ALATT	Alattyán, Hungary (Weinger [1967] in Rosing and Schwedterzy, 1977)
330	Üllő	ULLO	Üllő, Hungary (Lipót and Vámos [1969] in Rosing and Schwedterzy, 1977)
331	Kerecsend	KEREL	Kerecsend, Hungary (Lipót and Vámos [1969] in Rosing and Schwedterzy, 1977)
332	Veszprém	VESZP	Veszprém, Hungary (Ács and Nemeskéri [1965] in Rosing and Schwedterzy, 1977)
333	Oroszka	OROSI	Oroszka, Hungary (Lipót and Farkas [1962] and Farkas and Lipót [1965] in Rosing and Schwedterzy, 1977)
334	Szentes-Kecské	SZECZ	Szentes-Kecské, Hungary (Weinger [1967] in Rosing and Schwedterzy, 1977)
335	Szeged-Kenderk	SZEGD	Szeged-Kenderk, Hungary (Lipót and Márkus [1966] in Rosing and Schwedterzy, 1977)
336	Northern Transdanubia	N-TRN	Northern Transdanubia, Hungary (Egyi [1968] and Nemethi [1968] in Schwedterzy and Rosing, 1975)
337	Southern Transdanubia	S-TRN	Southern Transdanubia, Hungary (Wenger [1968] and Tóth [1963] in Schwedterzy and Rosing, 1975)
338	Gépids	GEPID	Gépids, Kismerence, Hungary (Tóth in Rosing and Schwedterzy, 1977)
339	Magyarország	MAGOR	Hungary (Magyarország [1967] in Rosing and Schwedterzy, 1977)
340	Pusz	PUTJ	Pusz, Slovensko (Slovenec [1951] in Rosing and Schwedterzy, 1977)
341	Drogowčen	DREGV	Drogowčen, Serbia (Alekseev [1967] in Rosing and Schwedterzy, 1977)
342	Varna	VARN	Varna, Bulgaria (Postnikova [1968] and Hajnai [1965] in Schwedterzy and Rosing, 1975)
343	Preslav	PRSLV	Preslav, Bulgaria (Postnikova [1962] in Rosing and Schwedterzy, 1977)
344	Anglo-Saxons	ANGLS	Anglo-Saxons, England and Scotland (Haworth [1926] in Moran, 1928)
345	Anglo-Franci	FRAN	Anglo-Franci, France (Postnikova [1962] in Rosing and Schwedterzy, 1977)
346	Ciply	CIPLY	Ciply, Prester (Postnikova [1962] in Rosing and Schwedterzy, 1977)
347	Franken 1	FRNK1	Franken, Haute Normandie, France (Haay [1968] in Rosing and Schwedterzy, 1977)
348	Franken 2	FRNK2	Franken, Basse Normandie, France (Deneuve [1921] in Rosing and Schwedterzy, 1977)
349	Franken 3	FRNK3	Franken, Poitou-Charentes (Postnikova [1962] in Rosing and Schwedterzy, 1977)
350	Merovingians	MEROV	Merovingians, France (Méziat [1967] in Rosing and Schwedterzy, 1977)
351	Wenden	WENDS	Wenden, Mecklenburg, Germany (Annas [1920] in Rosing and Schwedterzy, 1977)
352	Bremen	BREM	Bremen, Germany (Gädeleiter [1967] in Rosing and Schwedterzy, 1977)
353	Andertsen	ANDRT	Andertsen, Germany (Hauschild [1926] in Rosing and Schwedterzy, 1977)
354	Mannheim	MANNH	Mannheim-Vogelsberg, Germany (Rösing [1975] in Rosing and Schwedterzy, 1977)
355	Elster	ELSTR	Elster, Germany (Hauschild [1926] in Rosing and Schwedterzy, 1977)
356	Kaserkluatern	KASKE	Kaserkluatern, Bayreuth, Bavaria, Germany (Rösing [1973] in Rosing and Schwedterzy, 1977)
357	Gézing	GEISN	Gézing, Bayravay, Germany (Henzel [1925] and Krampl [1938] in Rosing and Schwedterzy, 1977)
358	Alamanus	ALAMN	Alamanus, Württemberg, Germany (Leaven [1949] in Rosing and Schwedterzy, 1977)
359	Northern Balkans	NBALK	Northern Balkans (Eberle [1967] in Rosing and Schwedterzy, 1977)
360	Wenige	WENIG	Wenige, Germany (Eberle [1967] in Rosing and Schwedterzy, 1977)
361	Hainburg	HAINB	Hainburg, Austria (Ehgartner [1959] in Rosing and Schwedterzy, 1977)
362	Aargenbiet	AARE	Aargenbiet, Burgundy, Switzerland (Hag [1940] in Rosing and Schwedterzy, 1977)
363	Bonaduz	BONAD	Bonaduz, Switzerland (Brunner [1972] in Rosing and Schwedterzy, 1977)
364	Erracuna	ETRUS	Erracuna, Tarija, Italy (Leptig Catalogue [1887] in Moran, 1928)
365	Tarragona	TARRG	Tarragona, Spain (Postnikova [1967] in Rosing and Schwedterzy, 1975)
366	West Gothic	W-GOT	West Gothic, Castile, I, Spain (Schwederzy [1957] in Rosing and Schwedterzy, 1977)
367	Loicen	LCASN	Loicen, Cauc, Akebar (Bauhan [1972] in Akebar and Gechme [1983], further in Schwedterzy and Rosing, 1977)
368	Shurfa	SHURE	Shurfa, Shurfa, Armenia (Gechme [1983] in Rosing and Rosing, 1975)
369	Abodes 1	ABYD1	Abodes 1, Egypt (Schmidt [1980] in Moran, 1955, further in Schwedterzy and Rosing, 1975)
370	Abodes 2	ABYD2	Abodes 2, Egypt (Schmidt [1980] in Moran, 1955, further in Schwedterzy and Rosing, 1975)
371	Theben 1	THEB1	Theben 1, Egypt (Schmidt [1980] in Moran, 1955, further in Schwedterzy and Rosing, 1975)
372	Theben 2	THEB2	Theben 2, Egypt (Schmidt [1980] in Rosing and Schwedterzy, 1975)
373	Lower Tigris 1	LITIG1	Lower Tigris 1, Iraq (Tigray [1945] in Rosing and Schwedterzy, 1975)
374	Lower Tigris 2	LITIG2	Lower Tigris 2, Iraq (Tigray [1945] in Rosing and Schwedterzy, 1975)
375	Upper Nahr	UNUB	Upper Nahr (Nahr) Group (Nehren [1971] in Schwedterzy and Rosing, 1975)
376	Wadi-Halfa 1	W-HL1	Wadi-Halfa 1 (Hall, Christian, Post) (Sadan [Nehren 1970] in Bibi, 1966)
377	Wadi-Halfa 2	W-HL2	Wadi-Halfa 2 (Hall, Christian, Post) (Sadan [Nehren 1970] in Bibi, 1966)
378	Mari	MARI	Mari, Tell el-Muqayyar (Tell el-Muqayyar [1965] in Rosing and Schwedterzy, 1975)
379	Aba-Missimini 1	AB-M1	Aba-Missimini 1 (Group XI), Sudan (Siby [1958] and El-Sayed [1960] in Moran, 1966)
380	Aba-Missimini 2	AB-M2	Aba-Missimini 2 (Group XI), Sudan (Siby [1958] and El-Sayed [1960] in Moran, 1966)
381	Kerma	KERM	Kerma, Sudan (Collet [1933] in Rosing and Schwedterzy, 1975)
382	West-central Illinois 2	WCIL2	West-central Illinois 2 (Earlier Land Woodland, U.S.A. (Bradley et al., 2000) West-central Illinois 2 (Linton Late Woodland, U.S.A. (Bradley et al., 2000))
383	West-central Illinois 3	WCIL3	West-central Illinois 3 (Linton Late Woodland, U.S.A. (Bradley et al., 2000))
384	Urumochi	URUM	Medzhidokh, Urumochi (Kazakov and Nagai, 1985)
385	Eastone	ETOMO	Urumochi, Kazakhstan (Nagai, 1985)
386	Zaimokuza	ZAIMK	Zaimokuza, Kamakura, Kanagawa (Suzuki et al., 1956; Kohara, 1956)
387	Yugishima	YUGIH	Yugishima, Minamata, Kagawa (Matsumoto, 2002)
388	Yugishima 2	YUGI2	Yugishima, Minamata (individual burial), Kanagawa (Nagakura et al., 2006, 2008)
389	Yugishima 3	YUGI3	Yugishima, Minamata (individual burial), Kanagawa (Nagakura et al., 2006, 2008)
390	Gokanasi	GOKRA	Gokanasi, Kanagawa (Nagakura et al., 2006)
391	Kajibasi	KAJIB	Kajibasi, Tokyo (Nagakura et al., 2006)
392	Marunouchi	MARNC	Marunouchi, Tokyo (Nagakura et al., 2006)
393	Yoshimochi	YOSHMC	Yoshimochi, Yamagata (Nagakura and Nagai, 1985)
394	Osaka	OSAK	Osaka, Kansai, Japan (Nagai [1971] in Nagashima and Nagai, 1985)
395	Mekan	METKAR	Mekan, Okinawa (Wade et al., 1999)
396	Koduk Island 1	KODK1	Koduk Island (Komagi) (Hrdlicka, 1944)
397	Koduk Island 2	KODK2	Koduk Island (Pre-Komagi) (Hrdlicka, 1944)
398	Inquinans	IROQU	Inquinans, southern Ontario, Canada (Yamaguchi, 1977)
399	West-central Illinois 4	WCIL4	West-central Illinois 4 (Earlier Late Woodland, U.S.A. (Bradley et al., 2000))
400	West-central Illinois 5	WCIL5	West-central Illinois 5 (Mississippi, U.S.A. (Bradley et al., 2000))
401	Pervius	PERUV	Pervius, central Peru, Peru (MacCurdy [1923] in Brown and Matoguchi, 2011)
402	Chamorro	CHAM	Chamorro, Guam Island (Hamahra, 1993a)
403	Chamorro 2	CHAM2	Chamorro, Mariana Islands (Idaho, 1993a)
404	Marina	MARIN	Marina, San Juan, Puerto Rico (Brown, 1993a)
405	Hawaiian Islands	HAWAI	Hawaiian Islands (Lau and Mai, 1993a)
406	Makapu	MOPAK	Makapu, Oahu Island, Hawaii, 1993a
407	Tonga & Samoa	TO-SA	Tonga and Samoa (Schwartz [1939] in Rosing and Schwedterzy, 1981)
408	Trondheim	TROND	Trondheim, Norway (Schwartz [1939] in Rosing and Schwedterzy, 1981)
409	Odin	ODIN	Odin, Norway (Schwartz [1939] in Rosing and Schwedterzy, 1981)
410	Cüden	CUDEN	Cüden, Novgorod, Russia (Sedov [1951] in Rosing and Schwedterzy, 1981)
411	Slevens	SLOVN	Slevens, Novgorod, Russia (Sedov [1952] and Alekseev [1969] in Rosing and Schwedterzy, 1981)
412	Krivéva 1	KRIV1	Krivéva, Kostroma (Alekseev, 1965)
413	Krivéva 2	KRIV2	Krivéva, Jaroslav, Russia (Alekseev, 1965)
414	Krivéva 3	KRIV3	Krivéva, Tver, Russia (Alekseev, 1965)
415	Krivéva 4	KRIV4	Krivéva, Kostroma (Alekseev, 1965)
416	Drogowčen	DREGV	Drogowčen, Belgrade (Alekseev, 1965)
417	Vjatčen	VJATC	Vjatčen, Russia (Alekseev, 1965)
418	Radmínen	RADM	Radmínen, Belarus (Alekseev, 1965)
419	Radimínen	RADIM	Radimínen, Belarus (Alekseev, 1965)
420	Gedob and Budigen	GRODK	Gedob and Budigen, Poland (Nowak and Piotrk [1961] in Rosing and Schwedterzy, 1981)
421	Cedynia	CEDYN	Cedynia, Poland (Nowak and Piotrk [1962] in Rosing and Schwedterzy, 1981)
422	Pojmane 1	POLJ1	Pojmane, Chernigov, Ukraine (Alekseev, 1965)
423	Pojmane 2	POLJ2	Pojmane, Pereslavl, Ukraine (Alekseev, 1965)
424	Drevljani	DREV1	Drevljani, Prešeren, Slovenia (Alekseev, 1965)
425	Borutin	BORUT	Borutin, Prešeren, Slovenia (Alekseev, 1965)
426	Mikulčice	MIKUL	Mikulčice-II, Czech (Sokol [1967] in Rosing and Hauer, 1982)
427	Dneust-Gebeit	DNEIS	Od Slav, Dneust-Gebeit, Romanija (Vrnikova [1975] in Rosing and Schwedterzy, 1981)
428	Nové Zámky	NOV-Z	Nové Zámky, Slovakia (Vladoňová and Hauer [1970] in Rosing and Hauer, 1982)
429	Magnav	MAGVR	Magnav, old Hungary (Bartha [1939] and Molnár [1962] in Moran, 1966)
430	Kerecsen	KERCS	Kerecsen, Csepel, Hungary (Lipót and Farkas [1967] in Rosing and Schwedterzy, 1981)
431	Szatny	SZATN	Szatny, Hungary (Lipót and Farkas [1967] in Rosing and Schwedterzy, 1981)
432	Zalávir	ZALVR	Zalávir, Horvát 1, Horvát 3 (together), Hungary (Wolff et al., 2012)
433	Fészterák	FESZR	Fészterák, Hungary (Feszty, 1988)
434	Vukovar	VUKVR	Vukovar, Croatia (Pálmér and Schwedterzy, 1987)
435	Bribus	BRIBS	Bribus, Bratislava, Slovakia (Alekseev, 1965)
436	Vaca	VINCA	Vaca, Setiba (Máki, 1982)
437	Bugijos	BUGIN	Bugijos, Bonia-Herzegovina (Klap, 1987)
438	Raska Gora	RASKA	Raska Gora, Bonia-Herzegovina (Máki, 1982)
439	Devín	DEVIN	Devín, Bulgaria (Frankenberg [1935] in Rosing and Schwedterzy, 1981)
440	Georgia 1	GEORG1	Georgia (Early Feudal Period) (Abdushelishvili, 1964)
441	Georgia 2	GEORG2	Georgia (Feudal Period) (Abdushelishvili, 1964)
442	Georgia 3	GEORG3	Georgia (Late Feudal Period) (Abdushelishvili, 1964)
443	Kai Germerkefriedhof	KIEL	Kai Germerkefriedhof, Germany (Heuse, 1972)
444	Rehengräber	REHIN	Rehengräber, shkab, Bavaria and western Germany (Moran, 1928)
445	Zweibrücken-Geing	MUCH	Zweibrücken, Austria (Heuse [1972] in Moran, 1966)
446	Zweibrücken	ZWEINT	Zweibrücken, Austria (Heuse [1972] in Moran, 1966)
447	Pitten	PITT	Pitten, Austria (Fabri and Reuer [1973-1977] in Rosing and Hauer, 1982)
448	Zwölfxang	ZWOLF	Zwölfxang, Austria (Schätzl [1970] in Rosing and Hauer, 1982)
449	Austrians	AUSTR	Austrians, Lower Austria and Moravia (Tolka [1919] in Moran, 1928)
450	Geneva	GENEV	Geneva, Switzerland (Voss [1950] in Rosing and Schwedterzy, 1981)
451	Sierte	SIERR	Swiss, Sierte, Switzerland (Pätzard [1909-1910] in Moran, 1928)
452	Vahai	VALAI	Swiss, Vahai, Switzerland (Pätzard [1909-1910] in Moran, 1928)
453	Irish	IRISH	Irish mounds (Angel, 1946)
454	Hythe	HYTHE	Hythe, England (Stoeßiger and Moran [1932] in Rosing and Schwedterzy, 1981)
455	England	ENGLS	England (Parsons [1914] in Davyong, 1963)
456	Greece	GREEK	Greece (Angel, 1946)
457	Enet	ENET	Enet (Angel, 1946)
458	Enet Godz	ENETG	Enet Godz (Angel, 1946)
459	Enet Godz 2	ENETG2	Enet Godz 2 (Angel, 1946)
460	Coptes	COPT	Coptes, Magyars, Egypt (Münzer [1924] in Moran, 1928)
461	Canary Islands	CANRY	Canary Islands (Schwedterzy [1963 and unpublished data] in Rosing and Schwedterzy, 1981)
462	Guanche	GUANC	Guanche, Canaries Islands, Spain (Behr [1908] in Moran, 1928)
463	Amak	AMAK	Amak, Canary Islands, Spain (Behr [1908] in Moran, 1928)
464	Shiba-kōen	SHIBK	Shiba-kōen (Tobiki [1962] in Moran, 1928)
465	Gojō	GOJ	Gojō (Tobiki [1962] in Moran, 1928)
466	Edo	EDO	Edo (Tobiki [1962] in Moran, 1928)
467	Yushima Maebashi	YUSH2	Yushima Maebashi 2 (Tobiki [1962] in Moran, 1928)
468	Edo Tokio	EDOTK	Edo Tokio (Tobiki [1962] in Moran, 1928)
469	Tennōjū	TENPK	Tennōjū (Tobiki [1962] in Moran, 1928)
470	Shiba-kōen	SHBK	Shiba-kōen (Tobiki [1962] in Moran, 1928)
471	Edo Godz	EDOGZ	Edo Godz (Tobiki [1962] in Moran, 1928)
472	Edo Godz 2	EDOGZ2	Edo Godz 2 (Tobiki [1962] in Moran, 1928)
473	Izumi	IZUMI	Izumi (Tobiki [1962] in Moran, 1928)
474	Edo	EDO	Edo (Tobiki [1962] in Moran, 1928)
475	Edo	EDO	Edo (Tobiki [1962] in Moran, 1928)
476	Edo	EDO	Edo (Tobiki [1962] in Moran, 1928)
477	Edo	EDO	Edo (Tobiki [1962] in Moran, 1928)
478	Edo	EDO	

601	Dravids	DRAVD	Dravida, India (Morant [1924] in Imamura and Shima, 1935)
602	Andamanese	ANDMN	Andamanese, India (Bonin [1931] in Imamura and Shima, 1935)
603	Vedda	VEDDA	Vedda, Sri Lanka (Woo and Morant [1932] in Imamura and Shima, 1935)
604	Burmese	BURMS	Burmese (Tiklesky [1920-1921] in Imamura and Shima, 1935)
605	Hausa	HAUSA	Hausa, Nigeria (Kondo and Keng, 1997)
606	Lao/tai	LAOTI	Lao/tai, China (Kondo and Keng, 1997)
607	Vietnamese	VIETN	Vietnamese (Oliver, 1966)
608	Khmer	KHMER	Khmers, Cambodia (Oliver, 1966)
609	Dayak	DAYAK	Dayak, Borneo (Bonin [1931] in Imamura and Shima, 1935)
610	Acta	AETA	Acta, Philippines (Bonin [1931] in Imamura and Shima, 1935)
611	Tai/Lolo	TAI/LG	Tai/Lolo, Philippines (Bonin [1931] in Imamura and Shima, 1935)
612	Javanese	JAVA	Javanese, Middle and East Java (Bonin [1931] in Imamura and Shima, 1935)
613	Fig 2	FIJ12	Fiji Islanders (Hanabusa, 1996)
614	Swampert	SWANP	Swampert, Australia (Brown, 2001)
615	South Australia	SAUSTM	Australian Aborigines, Adelaid, South Australia (Hanabusa, 1996)
616	South Australia 2	S-AU12	Australian Aborigines, Adelaid, South Australia (Dawson, 1963)
617	South Australia 3	S-AU13	Australian aborigines, South Australia (Dawson, 1963)
618	Papuans	PAPUA	Papuans, Papua New Guinea (Hanabusa, 1996)
619	Solomon	SOLOM	Solomon Islanders (Hanabusa, 1996)
620	New Zealandian	N-ZEAL	New Zealandian, Pacific Islands (Hanabusa, 1996)
621	New Hebrides	N-HEB	New Hebrides islanders, Vanuatu (Hanabusa, 1996)
622	New Caledonia	N-CAL	New Caledonia islanders (Hanabusa, 1996)
623	New Ireland	N-IRL	New Ireland islanders, Papua New Guinea (Hanabusa, 1996)
624	Moori	MAORI	Moori (Schoefeld [1965] in Dawson, 1963)
625	Lapps	LAPP5	Lapps (Schreiber [1955] in Schwidetzky, 1963)
626	Fins	FINNS	Fins (Schreiber [1955] in Schwidetzky, 1963)
627	Russians 1	RUSSI	Great Russians of peasant origin [northern and middle regions of European Russia] (Tarenezky [1884] in Morant, 1928)
628	Russians 2	RUSS2	Russians [northwestern region] (Alekseev, 1966)
629	Estonians	ESTON	Estonians (Alekseev, 1966)
630	Swedish Lavinians	ELAT	Estonian Lavinians (Alekseev, 1966)
631	Lithuanians	LITHU	Lithuanians (Alekseev, 1966; Alekseev [1969] in Schwidetzky and Rosing, 1984)
632	Dutchmen	DUTCH	Dutchmen (de Frey [1983] in Schwidetzky and Rosing, 1984)
633	Warsaw	WARSW	Warsaw, Poland (Kaczmarska [1965] in Schwidetzky and Rosing, 1984)
634	Wurtemberger	WURT	Wurtemberger, Germany (Tobler [1924] in Morant, 1928)
635	Bavarians 1	BAVR1	Bavarians, Wurtembergische (Kante [1883] et al. in Morant, 1928)
636	Bavarians 2	BAVR2	Bavarians, Wurtembergische (Aabyerheim, Aufkirchen (Kante [1883] et al. in Morant, 1928)
637	Carinthians	CARIN	Carinthians, Gredenberg, S. Austria (Shapiro [1929] in Angel, 1944)
638	Alatans	ALSAT	Alatans, France (Adam [1917] in Morant, 1928)
639	French	FREN5	French (Manchukouologue [1962] in Morant, 1928)
640	Bosnians	BOSN	Bosnians, Gazi Husrev Beg (Kaczmarska [1965] in Schwidetzky and Rosing, 1984)
641	Glasgow	GLASG	Glasgow, Scotland, U.K. (Young [1931] in Schwidetzky and Rosing, 1984)
642	Forresgean	FARRN	English, Forresgean Street, London (Hoole [1926] in Morant, 1928)
643	Whitechapel	WHITE	English, Whitechapel, London (Macdonell [1904] in Morant, 1928)
644	Spitalfields	SPITL	Spitalfields, England (Molleson and Cox, 1993)
645	Irish 1	IRIS1	English, Ireland (Molleson and Cox, 1993)
646	Ehnsgräppl	ELBIN	Ehnsgräppl, Tyrol, Austria (Schweiger [1967] and Caselitz [1980] in Schwidetzky and Rosing, 1984)
647	Tyroese	TYROL	Tyroese, Austria (Hol [1884] in Morant, 1928)
648	Vorarberger	VORAR	Vorarberger, Austria (Hol [1888] in Morant, 1928)
649	Magyars	MAGYR	Magyars, Hungary (Weisbach [1864] in Morant, 1928)
650	Slavones	SLOVN	Slavones, Slovenia, Weisbach [1902] in Morant, 1928; Weisbach [1881] in Morant, further in Angel, 1944
651	Czechs	CZECH	Czechs, Bohemia (Schiff [1921] in Morant, 1928)
652	Hradek b. Mikolov	HRADK	Hradek b. Mikolov, Czech (Frak [1965] in Schwidetzky and Rosing, 1984)
653	Romanians	RUMAN	Romanians (Weisbach [1870] in Morant, 1928)
654	Serbo-Croat	SCRCR	Serbo-Croat, Adriatic coast (Weisbach [1902] in Morant, 1928)
655	Oscians-Isten	OSCI	Oscians-Isten, Russia (Alekseev [1974] in Schwidetzky and Rosing, 1984)
656	Oscians-Digorens	OSSD	Oscians-Digorens, Russia (Alekseev [1974] in Schwidetzky and Rosing, 1984)
657	Sofia	SOFIA	Sofia, Bulgaria (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
658	North-central Bulgaria	NC-BL	North-central Bulgaria (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
659	North-west Bulgaria	NW-BL	North-west Bulgaria (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
660	Northwest Bulgaria	NW-BL	Northwest Bulgaria (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
661	Bulgarians (Trakien)	BUL-T	Bulgarians, Trakien (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
662	Bulgarians (Sudbukan)	BUL-S	Bulgarians, Sudbukan (Kadaneff et al. [1974] in Schwidetzky and Rosing, 1984)
663	Tashkent	TASHK	Tashkent, Uzbekistan (Ganzen [1963] in Schwidetzky and Rosing, 1984)
664	Turks	TURKE	Turks, Central Anatolian (Ganzen [1963] in Schwidetzky and Rosing, 1984)
665	Armenians	ARMEN	Armenians (Akbarzadeh [1974] and Ganzen [1963] in Schwidetzky and Rosing, 1984)
666	Sienna	SIENA	Sienna, Italy (Maxi and Fenu [1963] in Morant, 1928)
667	Sardinians 1	SARD1	Sardinians, Italy (Maxi and Fenu [1963] in Schwidetzky and Rosing, 1984)
668	Sardinians 2	SARD2	Sardinians (Duckworth [1911] in Morant, 1928)
669	Sicilians	SICIL	Sicilians (Moddo [1977] in Morant, 1928)
670	Greeks	GREEK	Greeks (Moddo [1977] in Morant, 1928)
671	Mahese	MALTA	Mahese, Malta (Bontet [1922] in Morant, 1928)
672	Algiers	ALGER	Algiers and Oran, Algeria (Desnoelle, 1981)
673	Kabyle	KABYL	Kabyle, Algeria (Desnoelle, 1981)
674	Biskri	BISKRI	Biskri, Algeria (Desnoelle, 1981)
675	Cameroon	CAMBR	Cameroon (Kemal [1976] and Trevor [1955] in De Villiers, 1968)
676	Uganda	UGAND	Uganda (Göray [1971] in De Villiers, 1968)
677	Fernand Vaz	FERNA	Fernand Vaz, Gabon (Trevor [1949] in De Villiers, 1968)
678	Haya	HAYA	Haya, Tanzania (Czarkowski [1951] in De Villiers, 1968)
679	Buggy	BUGGY	Buggy, Rwanda (Czarkowski [1951] in De Villiers, 1968)
680	Mulere	MULER	Mulere, Rwanda (Czarkowski [1951] in De Villiers, 1968)
681	Taita	TAITA	Taita, Kenya (Katon [1931] in De Villiers, 1968)
682	Tetela	TEELA	Tetela, Congo (Trevor [1949] in De Villiers, 1968)
683	Natal Nguni	N-NGU	Natal Nguni, South Africa (De Villiers, 1968; Lindy, 1986)
684	Cape Nguni	C-NGU	Cape Nguni, South Africa (De Villiers, 1968; Lindy, 1986)
685	Sotho	SOTHO	Sotho, South Africa (De Villiers, 1968; Lindy, 1986)
686	Shangana-Tonga	SHANG	Shangana-Tonga, South Africa (De Villiers, 1968)
687	Bushman	BUSHM	Bushman, South Africa (De Villiers, 1968)

\*In some cases, the same label was assigned to two or more samples, for example, of different ages found at the same site. Even so, however, they were treated as separate samples when used in analyses.

Appendix 2. *Homo sapiens sapiens* female samples of the Neolithic to modern times from all over the world<sup>1</sup>

Original sample	Label of the sample	Labels of the packed sample containers and the relevant sample	Site (reference)
1. Kinugase K-13	KIT13	JOMIEHF	Kinugase K-13, Date, Hokkaido (Dodo et al., 1986)
2. Furuyashiki	FRYSY	JOMIEHF	Furuyashiki, Aomori (Morimoto, 1986)
3. Iwao	IAUO	JOMIEHF	Iwao, Gifu (Kondo et al., 1997)
4. Endohji	ENSHU	JOMIEHF	Endohji, Saitama (Ishii, 1992)
5. Yuzuru	YUGRA	JOMIEHF	Yuzuru Cave, Nagano (Morimoto and Takahashi, 1986)
6. Tsuchi	TUCHI	JOMIEHF	Tsuchi, Gifu (Miyake et al., 1994) (Endohji et al., 2011)
7. Manyo No. 2	MURV2	JOMIEHF	Manyo No. 2, Yamagata (Ogata, 1993) (Endohji et al., 2011)
8. Otake	ODAKI	JOMINWF	Otake, Toyama (Sakane et al., 2014)
9. Otake 1	ODAKI	JOMINWF	Otake 1, Toyama (Munachii, n.d.)
10. Mino	MINE	JOMINWF	Mino, Gifu (Hirayama, 1986) (Endohji et al., 2004)
11. Hashima	HASHI	JOMINWF	Hashima, Okinawa (Hasebe, 1941a)
12. Nakatsujiwa	NAKTS	JOMINWF	Nakatsujiwa Cave site, Ehime (Dodo, 1976)
13. Kamikuroiwa	KAMKR	JOMINWF	Kamikuroiwa rock shelter site, Ehime (Nakahashi and Okazaki, 2009)
14. Hira	HIRW	JOMINWF	Hira Cave, Niigata (Nakamura, 1999)
15. Tokonari	TODR	JOMINWF	Tokonari, Kumanoto (Kaijyo et al., 1998)
16. Shionoyakata 6	SHMM6	JOMINWF	Shionoyakata 6, Nagasaki (Kaijyo et al., 1998)
17. Tomodanbo	TONDB	JOMINWF	Tomodanbo, Fukuoka (Hidaka, Matsumura et al., 2001)
18. Ovacchi	OYACH	JOMZHKF	Ovacchi 1-1, Yachi, western Fukuoka (Ishii et al., 2000)
19. Takasago (Ishii)	TKS1	JOMZHKF	Takasago, Abuta, Hokkaido (Ishii et al., 1987)
20. Ura Ch 6	USC16	JOMZHKF	Ura Ch 6, southwest Hokkaido (Kanda, 1978)
21. Ura Ch B No. 1	USC17	JOMZHKF	Ura Ch B No. 1, Abuta, Hokkaido (Kanda and Yamaguchi, 1980)
22. Kakot	KAKT	JOMTHKF	Kakot, Iwate (Oyata and Moriwasa, 1971)
23. Ehsanlu	EHSIM	JOMTHKF	Ehsanlu, wate (Minoguch et al., Dodo, 2001; Yamagishi, 1983)
24. Aoiyamashita 97-1	AOS97	JOMTHKF	Aoiyamashita 97-1, Nagaoka, Niigata (Aoi, Iwane et al., 1999)
25. Aoshima	AOSH	JOMTHKF	Aoshima, Miyazaki (Dodo, 1981)
26. Satohama	SATHM	JOMTHKF	Satohama, Miyazaki (Dodo, 1981)
27. Sanjouji	SNOJ	JOMTHKF	Sanjouji, Fukuoka (Hamada and Iwase, 1988; Baba, 1988)
28. Sanjouji	NAKTS	JOMTHKF	Sanjouji, Fukuoka (Hamada and Iwase, 1996)
29. Horinouchi	BRNC	JOMKNTR	Horinouchi, Chiba (Shinkai et al., 1957)
30. Urayasu	UBAYA	JOMKNTR	Urayasu, Chiba (Kondo, 1993)
31. Kuroi (Suzuki)	KURS	JOMKNTR	Kuroi, Chiba (Kondo et al., 1976)
32. Koseki	KOSAK	JOMKNTR	Koseki, Chiba (Kondo et al., 1985)
33. Kusakari	KSKAR	JOMKNTR	Kusakari, Chiba (Hamano and Mioguchi, 1986)
34. Yamagishi	YAHAG	JOMKNTR	Yamagishi shell-mound, Chiba (Hamano, 1981)
35. Kamei	KTEME	JOMKNTR	Kamei, Chiba (Hamano, 1999)
36. Shinkake	SHMK	JOMKNTR	Shinkake, Nagano (Tanzai, 2003)
37. Do-no-Kainuka No. 7	DONK7	JOMKNTR	Do-no-Kainuka No. 7, Sado, Niigata (Oyata and Moriwasa, 1977)
38. Shinkajou	SJOMK	JOMKNTR	Shinkajou, Shizuoka (Hirai, 1988)
39. Iwawazu	IKAZW	JOMKNTR	Iwawazu, Aichi (Ishii et al., 1972; Flura et al., 1988)
40. Kawaji SK02	KAWI2	JOMKNTR	Kawaji SK02, Aichi (Ishii and Moort, 1995)
41. Kawaji	KAWI	JOMKNTR	Kawaji, Aichi (Ishii et al., 1972)
42. Tsukumo	TSUKM	JOMSNYY	Tsukumo, Okayama (Yamagishi and Oyata, et al., 1988)
43. Tsukumo	TSUKM	JOMSNYY	Tsukumo, Okayama (Yamagishi and Oyata, 1988)
44. Tsubue	TSUB	JOMSNYY	Tsubue, Okayama (Hasegawa, 1948)
45. Tashiro-Yoschika	TASHI	JOMSNYY	Tashiro-Yoschika, Hiroshima (Suzuki and Fukuhara, 1976)
46. Tomonari	TOYM	JOMSNYY	Tomonari, Gifu (Tomonari and Dodo, 2001; Yamagishi, 1988)
47. Yamaga	YAMAG	JOMSNYY	Yamaga, Kumamoto (Kaijyo et al., 1998)
48. Fukukawa	FUKOK	JOMSNYY	Fukukawa, Miyazaki (Dodo, 1981)
49. Iwai (Late Jomon)	IREHI	JOMSNYY	Iwai, Cave, Niigata (Nakamura, 1999)
50. Kakiwaki	KAKWR	JOMSNYY	Kakiwaki, Wakayama (Matsumoto et al., 1967)
51. Ataka	ATAKA	JOMSNYY	Ataka, Kumamoto (Otoju, 1960)
52. Gero	GORYA	JOMSNYY	Gero shell mound, Kumamoto (Kondo D.I.K., 1988)
53. Shimomura	SHIMR	JOMSNYY	Shimomura, Kumamoto (Kondo et al., 1988)
54. Upper Leu River	ULENA	JOMSNYY	Upper Leu River, Shiretoko (Hida, 1942)
55. Anjina River	ANGRA	JOMSNYY	Anjina River, Shiretoko (Hida, 1944)
56. Yaman	YAMAN	JOMSNYY	Yaman, Iwate (Oyata et al., 1988)
57. Yaman	YANGS	JOMSNYY	Yaman, Iwate (Oyata et al., 1988)
58. Baoo	BAAOI	NEOSHNN	Baoo, Shuang, China (Yan et al., 1968)
59. Banpo	BANPO	NEOSHNN	Banpo, Shaanxi, China (Yan et al., 1968) et al. Wu and Zhang, 1985)
60. Human	HUMAN	NEOSHNN	Human, Shaanxi, China (Yan et al., 1968) et al. Wu and Zhang, 1985)
61. Shan	SHNU	NEOHENN	Shan, Henan, China (Wu and Wang, 1985)
62. Xawangzong	XIAWN	NEOHENN	Xawangzong, Henan, China (Zhang and Chen et al.) et al. Wu and Zhang, 1985)
63. Dawenkou	DAWNK	NEOHENN	Dawenkou, Shandong, China (Yan et al., 1972) et al. Wu and Zhang, 1985)
64. Liangzhu	LIAZU	NEOHENN	Liangzhu, Zhejiang, China (Yan et al., 1972)
65. Longshan	LONGQ	NEOHENN	Longshan, Zhejiang, China (Yan et al., 1972)
66. Tianshan	TANSI	NEOHENN	Tianshan, Fujian, China (Han et al., 1976)
67. Jinzhuan	JINZH	NEOHENN	Jinzhuan, Jiangxi (Han et al., 1976)
68. Hejingzhan	HEJING	NEOHENN	Hejingzhan, Guangdong, China (Han et al., 1982)
69. Ban Ku	BANKA	NEOHENN	Ban Ku, Thailand (Sanphet et al., 1969)
70. Lantao	LTGOC	NEOSRRB	Lantao, Greece (Floris et al., 1983)
71. Vlasic Va	VLASIC	NEOSRRB	Vlasic Va, Serbia (Zoffman, 1983)
72. Vlasic	VLASIC	NEOSRRB	Vlasic, Serbia (Zoffman, 1983)
73. Attila-Yanis	ATYL	NEOSRRB	Attila, Attila-Yanis (Herczeg and Galia, 1991)
74. Nagold	NAGOLD	NEOSRRB	Nagold, Egypt (Hassan et al., 1980) et al. Davis, 1952)
75. Otsukamami	ONKRS	EPHJKDF	Otsukamami, Wakayama (Yamaguchi, 1982b)
76. Ehetru	EBETS	EPHJKDF	Ehetru, Hokkaido (Kono, 1982)
77. Etomo	ETDM	EPHJKDF	Etomo, Maruyama, Hokkaido (Ota et al., 1979)
78. Zhoukoudian U6	MAIZU	EPHJKDF	Zhoukoudian U6, Beijing (Dodo, 1982)
79. Huatai Cave	HUAT	JAYOIF	Huatai 1-Cave site, Yunnan (Kaijyo et al., 1999)
80. Iwatsubo Cave	IWATS	JAYOIF	Iwatsubo Cave site, Yamagata (Kaijyo, 1992)
81. Iwaki 1	IWAK1	JAYOIF	Iwaki 1, Aichi (Tani et al., 1980)
82. Asakura 1	ASAK1	JAYOIF	Asakura 1, Aichi (Tani et al., 1980)
83. Kuroi	KOURA	JAYOISNF	Kuroi, Shizuoka (Kaijyo D.I.K., 1988)
84. Dojigai	DOJIG	JAYOYMF	Dojigai, Yamagata (Kaijyo D.I.K., 1988)
85. Nishimura	NISHM	JAYOYMF	Nishimura, Yamagata (Kaijyo D.I.K., 1988)
86. Yoshinohama	YOSH	JAYOYMF	Yoshinohama, Yamagata (Nakahashi and Naya, 1985)
87. Kanekomura	KNNKS	JAYOYMF	Kanekomura, Fukushima (Nakahashi et al., 1985)
88. Maedaya	MAEDA	JAYOYUF	Maedaya 1, Fukushima (Kaijyo et al., 1987)
89. Shioya	SHIOYA	JAYOYUF	Shioya, Iwate (Oyata et al., 1988)
90. Kochi-Juju	KOCHI	JAYOYUF	Kochi-Juju, Fukushima (Nakahashi, 1995)
91. Fudoki	FUDOK	JAYOYUF	Fudoki, Iwate (Oyata et al., 1988)
92. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
93. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
94. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
95. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
96. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
97. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
98. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
99. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
100. Fukaku	FUKAK	JAYOYUF	Fukaku, Iwate (Oyata et al., 1988)
101. Fukaku Part 3	FOKKI3	JAYOYUF	Ishigaki and Maneno sites, Fukaku (Kondo D.I.K., 1988)
102. Fukaku Part 4	FOKKI4	JAYOYUF	Kanou, No. 1, Komiyama, Iwate (Oyata et al., 1988)
103. Fukaku Part 5	FOKKI5	JAYOYUF	Nishizaki, Nihoku, Iwate (Oyata et al., 1988)
104. Fukaku Part 6	FOKKI6	JAYOYUF	Yamada, Iwate (Oyata et al., 1988)
105. Mitsu	MITSU	JAYOYUF	Mitsu, Iwate (Oyata et al., 1988)
106. Otomo (1st-to-4th exc.)	OTM14	JAYOYUF	Otomo (the 1st-to-4th excavations), Sado (Matsumoto et al., 1981)
107. Otomo (6th & 6th exc.)	OTM50	JAYOYUF	Otomo (the 6th & 6th excavations), Sado (Matsumoto et al., 1981)
108. Uksukami	UKSKM	JAYOYUF	Uksukami, Sado (Matsumoto et al., 1981)
109. Saga, Part 1	SAGAI1	JAYOYUF	Agechi, Asahi, Kitaibar, and Kiyama sites, Saga (Kaijyo D.I.K., 1988)
110. Saga, Part 2	SAGAI2	JAYOYUF	Agechi, Asahi, Kitaibar, and Kiyama sites, Saga (Kaijyo D.I.K., 1988)
111. Kuroi	KOURA	JAYOYUF	Kuroi, Shizuoka (Kaijyo D.I.K., 1988)
112. Ichinomiya	ICHNT	JAYOYUF	Ichinomiya, Fukui (Kondo D.I.K., 1988)
113. Yoshigawa	YOSHGA	JAYOYUF	Yoshigawa, Fukuka (Kondo D.I.K., 1988)
114. Karame	KARME	JAYOYUF	Karame-Shiuden site, Fukuda (Kondo D.I.K., 1988)
115. Nakashima	NASUM	JAYOYUF	Nakashima, Nagaoka (Kondo D.I.K., 1988)
116. Hashikoma	HASHI	JAYOYUF	Hashikoma, Nagaoka (Kondo D.I.K., 1988)
117. Tsurumaki	TSURM	JAYOYUF	Tsurumaki, Nagaoka (Kondo D.I.K., 1988)
118. Hidemitsu	HIDEM	JAYOYUF	Hidemitsu, Nagaoka (Kondo D.I.K., 1988)
119. Ekevi	EKEVI	JAYOYUF	Asian Ekevi, Ekevi, Kasua (Fedorova, 1991)
120. Wusun	WUSUN	JAYOYUF	Wusun, Xizang, China (Han et al., 1987)
121. Chuawa	CHAWA	JAYOYUF	Chuawa, Chuawa, China (Han et al., 1987)
122. Guru Gu	GUMUG	JAYOYUF	Guru Gu, Xizang, China (Han, 1986)
123. Wayagou	WAYAO	JAYOYUF	Wayagou, Shanshi, China (Han, 2009)
124. Shiquan	SHANP	JAYOYUF	Shiquan, Ningxia, China (Shan, 1988)
125. Anyang	ANYANG	JAYOYUF	Anyang, Henan, China (Zhang et al., 1985)
126. Man Bai	MANBC	JAYOYUF	Man Bai, northern Vietnam (Matsumoto et al., 2011)
127. Bai Chang (P. & D.)	BACP	JAYOYUF	Bai Chang, Northeast Thailand (Petersewsky and Douglass, 2002)
128. Parc National de la Vierge	PARKV	JAYOYUF	Parc National de la Vierge, France (Browne, 2003)
129. Parc National du Luberon	PARKL	JAYOYUF	Parc National du Luberon, France (Browne, 2003)
130. Parc National des Pyrenees	PARKP	JAYOYUF	Parc National des Pyrenees, France (Browne, 2003)
131. Silos del Pinar	SILD	JAYOYUF	Silos del Pinar, Majica, Spain (Malosa, 1988)
132. Grecs, maiandri Greece (Early Iron Age)	GREC5	JAYOYUF	Grecs, maiandri Greece (Early Iron Age) (Angel, 1943)
133. IstHM	ISTHM	JAYOYUF	IstHM, Corinth, Greece (Mycenae and Late Helladic III) (Angel, 1943)
134. Cyphaleion	CEPH	JAYOYUF	Cyphaleion, Greece (Angel, 1943)
135. Tepe Hisar (Med.)	MDT-P	JAYOYUF	Mediterranean cranial type, Tepe Hisar, Iğdır (Krogan, 1940)
136. Karanlik	KARAN	JAYOYUF	Karanlik, Muğla, Turkey (Krogan, 1940)
137. Harap	HARAP	JAYOYUF	Harap, Tarsus, Cilicia (Krogan, 1940)
138. En Gedai 1	EN-GI	JAYOYUF	En Gedai 1, Israel (Krogan, 1940)
139. En Gedai 2	EN-G2	JAYOYUF	En Gedai 2, Israel (Krogan, 1940)
140. En Gedai 3	EN-G3	JAYOYUF	En Gedai 3, Israel (Krogan, 1940)
141. Wadi-Hala (Group C)	WAD-C	JAYOYUF	Wadi-Hala, Sudan (Cohen et al., 1978) et al. Davis, 1986)
142. Wadi-Hala (Group D)	WAD-D	JAYOYUF	Wadi-Hala, Sudan (Cohen et al., 1978) et al. Davis, 1986)
143. Wadi-Hala (Group E)	WAD-E	JAYOYUF	Wadi-Hala, Sudan (Cohen et al., 1978) et al. Davis, 1986)
144. Miyako	MIYKO	JAYOYUF	Miyako, Sado (Ishii, 1976) et al. Davis, 1986)
145. Aksha	AKSHA	JAYOYUF	Aksha, Sudan (Cohen, 1976) et al. Davis, 1986)
146. Abu-Mousaani 1	ABU1	JAYOYUF	Abu-Mousaani, Sudan (Peret et al., 1980) et al. Davis, 1986)
147. Abu-Mousaani 2	ABU2	JAYOYUF	Abu-Mousaani, Sudan (Peret et al., 1980) et al. Davis, 1986)
148. Kerma	KERMA	JAYOYUF	Kerma, Sudan (Cohen, 1973) et al. Davis, 1986)
149. Central-western Illinois	WCIL1	JAYOYUF	Central-western Illinois (Browne, 2003)
150. Omsaka	OMSK	KOHTSKF	Omsaka, Wakayama, Fukushima (Ishii, 1988) et al. Yamaguchi and Yamaguchi, 1981, 1982a, 1982b)
151. Omsaka	OMSK	KOHTSKF	Omsaka, Wakayama, Fukushima (Ishii, 1988) et al. Yamaguchi and Yamaguchi, 1981, 1982a, 1982b)
152. Oshoma	OSHNM	KOHTSKF	Oshoma, Reba Island, Hokkaido (Ishii, 1991)
153. Hamazuka-2	HM2	KOHTSKF	Hamazuka-2, 3, Hamazuka-2-2, Reba Island, Hokkaido (Ishii, 1991)
154. Hamazuka-3	HM3	KOHTSKF	Hamazuka-3, Hamazuka-3-2, Reba Island, Hokkaido (Ishii, 1991)
155. Moyoro II	MOYR2	KOHTSKF	Moyoro II, Aburao, Hokkaido (Ishii, 1991)
156. Moyoro I	MOYR1	KOHTSKF	Moyoro I, Aburao, Hokkaido (Ishii, 1991)
157. Jinyu-	JINY	KOHTSKF	Jinyu-yama, Utson Site, eastern Hokkaido (Ishii et al., 1993, 1994)
158. Tekkai	TEKK	KOHTSKF	Tekkai Cave, Chiba, Japan (Yamagata, Yamaguchi and Ishii, 2000)
159. Gotozaki	GOTOS	KOHTSKF	Gotozaki, Goto, Miyazaki, Japan (Yamagata, 1995)
160. Kumorido	KUMRD	KOHTSKF	Kumorido, Miyagi (Matsumura and Ishii, 1995)
161. Sunu cave	SUNU	KOHTSKF	Sunu cave, Miyagi (Matsumura, 1995a)
162. Yamato	YAMOT	KOHTSKF	Yamato, Miyagi (Matsumura, 1995b)
163. Fukado B	FUKAD	KOHTSKF	Fukado B, Fukashima (Ishii and Matsumura, 1991)
164. Fukaku	FUKAK	KOHTSKANT	Fukaku, Iwate (Kuroda, 1988)
165. Kusakari	KSKAR	KOHTSKANT	Kusakari, Chiba (Hamano and Mioguchi, 1986)
166. Morio-Nagami	MOR-N	KOHTSKANT	Morio-Nagami, Chiba (Kuroda, 1986)
167. Ichikyu	ICHK	KOHTSKANT	Ichikyu, Chiba (Kuroda, 1986)
168. Alabedical	AKABN	KOHTSKANT	Alabedical No. 9, Tokyo (Yamaguchi, 1989)
169. Seungja-Zaury	SENZ	KOHTSKANT	Seungja-Zaury, Seoul, South Korea (Yamaguchi, 1989)
170. Tokorit	TOKITR	KOHTSKANNF	Tokorit, Chiba (Tokuji, 2001)
171. Shimane	SHIMN	KOHTSKANNF	Kimono, Sanuki, Japan (Tokuji, 2001)

<sup>1</sup>In some cases, the same label was assigned to two or more samples, for example, of different ages found at the same site. Even so, however, they were treated as separate samples when used in analyses.

Appendix 3. The sample means for the first variable set of the skull (Table 1) in 117 male samples of the Neolithic to modern times from all over the world.<sup>1)</sup>

	Sample	Martin's No. 1	No. 5	No. 9	No. 8	No. 17	No. 48	No. 45	No. 52	No. 54	No. 55	Avg. temp.	Avg. precip.	Avg. rel. humid.	Chrono. age	Abs. (latitude)	Gr. cir.	Avg. sample size	
1	JOM2KNTM	184.5	104.4	97.0	143.8	139.6	67.3	141.3	32.0	26.5	49.3	14.1	1511.0	66.8	4330.0	36.0	10899.5	52	
2	BAI I	187.1	102.7	92.8	143.0	130.7	73.9	138.9	33.7	26.1	53.4	-1.0	367.3	73.4	7100.0	53.0	8199.0	49	
3	S-EGY	182.5	100.3	91.1	131.6	134.1	68.5	123.6	31.5	24.8	48.8	22.9	0.6	42.0	6000.0	27.0	2456.6	66	
4	NAQAD	185.1	99.3	91.1	134.9	135.2	67.6	125.6	31.9	25.1	48.9	24.6	1.3	41.1	5700.0	26.0	2310.4	105	
5	YAYOYMGM	183.0	100.4	96.9	142.0	135.2	72.6	139.2	34.6	26.9	52.9	15.0	1620.0	76.6	2333.3	34.0	10131.3	47	
6	YAYOFUKM	183.9	102.0	95.8	142.4	137.9	74.7	139.8	34.3	27.0	52.6	15.9	854.2	68.5	2200.0	33.7	10075.9	94	
7	EKVEN	192.8	108.3	96.2	134.3	138.9	76.7	140.5	35.4	24.4	55.2	-7.0	300.0	85.0	2000.0	66.0	11754.6	50	
8	TAGAR	186.3	105.1	98.8	142.2	136.6	72.0	137.5	32.4	24.9	52.1	2.0	260.0	64.0	2500.0	51.0	7032.9	68	
9	CHAWH	183.4	100.7	94.2	136.5	135.8	70.7	131.1	31.8	24.8	51.3	8.0	60.0	54.0	3300.0	42.0	6386.0	45	
10	SHANP	188.5	103.5	95.7	137.6	140.2	75.0	131.7	33.1	25.0	54.4	12.0	45.7	43.3	2600.0	37.0	5679.4	26	
11	MURRY	189.1	102.5	87.0	130.5	133.5	70.6	135.6	32.9	28.4	50.0	17.0	260.0	52.0	2100.0	35.0	11897.8	46	
12	BRITS	187.4	101.6	98.0	141.4	132.9	69.1	130.6	33.6	23.7	50.6	8.0	780.0	84.0	2000.0	52.0	6185.6	67	
13	ETR-R	183.0	101.0	96.1	143.7	133.4	70.7	131.9	32.9	24.1	51.6	16.3	662.8	72.8	2400.0	42.0	4704.8	84	
14	POMPE	181.6	99.3	98.7	142.6	131.3	70.7	131.7	34.1	24.1	52.2	15.5	1007.0	72.3	1921.0	41.0	4517.3	53	
15	PN-TP	191.7	104.8	97.2	136.0	138.5	71.2	130.0	32.2	25.5	51.2	14.8	180.5	47.7	4500.0	36.0	3868.9	38	
16	GIZEH	185.3	101.6	94.8	138.9	134.1	70.4	128.7	33.7	24.4	51.7	21.8	19.8	54.7	2500.0	30.0	2782.3	882	
17	N-EGY	181.9	100.8	92.6	138.3	137.4	71.5	127.2	33.3	24.5	51.4	21.8	7.2	51.9	4100.0	29.0	2673.5	38	
18	THEBS	181.9	100.6	93.8	136.6	136.1	68.8	128.3	33.0	25.3	50.4	23.9	1.6	41.0	3300.0	26.0	2310.4	168	
19	LNU-A	182.8	101.7	93.2	134.0	133.7	69.7	127.5	32.2	25.1	50.7	26.1	0.4	27.6	4600.0	23.0	1981.0	98	
20	LNU-D	185.6	101.3	91.3	135.6	133.9	68.5	126.6	32.2	25.1	50.3	26.1	0.4	27.6	2900.0	23.0	1981.0	124	
21	LNUB	182.3	100.8	93.3	132.7	132.2	68.7	126.0	32.3	26.1	48.8	26.1	0.4	27.6	2000.0	23.0	1966.9	111	
22	AKSHA	182.3	100.0	93.1	133.9	133.5	67.5	127.1	32.5	26.7	47.5	25.6	0.4	26.8	2000.0	22.0	1919.5	35	
23	KOFFOKOM	181.6	100.8	94.9	141.0	135.7	72.1	138.7	34.1	26.3	51.6	15.6	1261.6	72.0	1300.0	34.0	10131.3	48	
24	ELTVL	191.0	102.4	96.8	140.9	133.6	70.3	134.1	33.1	24.1	51.9	10.0	490.0	74.0	1400.0	50.0	5600.6	45	
25	ETRUS	183.0	101.0	96.1	143.7	133.4	70.7	131.9	32.9	24.1	50.8	16.3	662.8	72.8	2400.0	42.0	4704.8	84	
26	L-NB2	183.3	99.7	91.5	131.9	131.2	67.5	123.7	32.5	25.5	48.8	26.1	0.4	27.6	1500.0	23.0	1981.0	67	
27	MEDKAMK	184.8	103.5	94.4	137.6	137.7	66.0	135.6	33.7	26.4	51.5	16.0	1600.0	72.0	7000.0	35.0	10923.9	238	
28	IROQU	188.3	101.6	95.5	140.0	137.8	73.5	140.3	34.7	27.2	54.6	8.2	785.9	71.3	5000.0	44.0	17410.7	57	
29	PERUV	179.4	99.2	92.4	135.5	137.1	67.7	134.8	34.7	24.2	49.3	7.9	779.1	59.1	5000.0	13.0	23467.6	66	
30	MEDCHAMM	181.6	104.4	96.6	140.4	142.1	69.3	140.7	35.2	26.6	54.5	27.3	2126.0	80.9	750.0	15.0	11927.1	60	
31	HAWAI	182.0	106.1	95.0	144.1	141.9	68.6	136.6	35.0	26.4	54.5	22.4	1692.0	77.0	5000.0	20.0	16849.7	87	
32	MOKAP	185.9	106.7	97.2	146.2	144.2	68.2	136.9	34.9	26.3	53.0	24.4	815.3	73.1	6000.0	21.0	16700.0	63	
33	BOHMN	186.2	101.8	98.0	141.9	138.0	68.1	131.5	32.4	25.2	51.3	8.0	470.0	79.2	1200.0	50.0	5363.5	49	
34	MAGYR	179.7	100.8	96.7	147.6	135.6	72.9	134.7	34.6	25.6	53.8	10.0	620.0	70.4	1200.0	47.0	4868.0	28	
35	FESZR	184.5	102.8	97.4	138.4	136.8	69.0	133.9	32.1	24.7	51.4	10.8	700.0	73.3	1300.0	46.0	4831.4	33	
36	GEOR1	184.6	102.9	97.1	139.7	135.8	71.5	133.3	33.6	24.8	53.4	15.0	1290.0	72.0	1100.0	42.0	4145.1	88	
37	GEOR2	179.8	102.0	100.0	148.1	135.7	70.1	137.3	33.4	24.9	53.7	15.0	1290.0	72.0	800.0	42.0	4145.1	287	
38	GEOR3	179.5	102.8	101.1	149.1	136.3	71.7	138.8	34.4	25.3	53.3	15.0	1290.0	72.0	4000.0	42.0	4145.1	120	
39	REHNN	189.4	102.6	97.7	139.8	135.6	70.2	132.2	32.9	24.9	52.6	8.5	718.5	76.5	1400.0	50.0	5557.9	113	
40	SERR	182.1	101.0	99.9	149.0	133.5	69.7	137.2	32.5	23.8	49.8	9.2	603.3	72.0	5000.0	46.0	5251.8	65	
41	VALAI	177.7	100.2	96.5	151.0	151.2	70.9	136.3	32.8	24.1	50.1	9.2	603.3	72.0	5000.0	46.0	5251.8	355	
42	COPTS	181.3	98.4	94.3	141.0	140.0	72.7	129.0	34.0	25.0	53.8	12.8	151.8	5.5	50.6	1200.0	29.0	2673.5	38
43	GUANC	185.8	99.9	97.2	143.8	131.1	69.6	134.5	32.9	23.7	50.7	20.7	134.0	68.0	6000.0	28.0	5918.8	77	
44	EDOTKYM	182.7	102.4	94.0	140.3	137.9	70.2	135.6	35.1	25.4	53.0	15.0	1520.0	62.0	3000.0	36.0	10899.5	158	
45	EDOTKWM	182.1	100.9	95.0	141.1	137.2	70.2	134.6	34.9	25.4	52.5	15.0	1520.0	62.0	2750.0	36.0	10899.5	65	
46	GOFNA	181.4	102.5	93.7	135.7	136.4	70.6	130.0	35.9	25.9	51.6	15.0	1520.0	62.0	2500.0	36.0	10899.5	45	
47	IKENH	181.9	102.1	93.8	139.9	137.0	71.8	136.1	34.4	26.3	51.8	15.0	1520.0	62.0	2500.0	36.0	10899.5	73	
48	EDTOPOKOM	183.4	103.0	94.5	140.8	138.9	73.1	137.1	34.0	26.6	51.7	16.0	796.0	68.0	216.7	34.0	10039.9	67	
49	R-AIN	187.6	105.7	95.4	141.0	136.2	73.4	138.6	34.4	25.9	50.6	-0.2	774.1	82.0	49.0	52.0	1125.9	38	
50	HOKKAIN	188.3	105.3	92.5	140.6	137.0	68.8	135.8	34.2	26.2	49.7	6.7	1071.2	76.3	80.7	42.7	10902.2	120	
51	TOHKUM	181.2	101.5	94.1	139.3	136.3	69.0	133.4	35.1	25.7	52.0	10.8	1326.0	76.3	51.5	39.0	10908.8	61	
52	KANTOM	179.8	101.5	93.9	140.9	138.4	71.2	134.0	34.4	25.3	52.1	13.5	1586.3	73.4	47.3	36.0	10899.5	213	
53	HOKKRM	183.0	100.9	93.0	139.8	134.5	70.0	135.0	35.2	24.9	51.5	14.0	2560.0	72.0	68.5	37.0	10614.4	30	
54	KINAI	178.4	102.3	93.1	141.0	138.9	72.9	133.4	34.3	26.3	52.5	15.0	1330.0	72.0	76.0	35.0	10567.0	30	
55	KYUSHUM	182.2	103.9	94.0	140.5	141.6	70.1	133.0	35.7	24.8	52.3	16.2	1831.0	73.2	62.0	33.0	10145.4	64	
56	YORON	185.4	101.7	95.2	142.8	136.5	70.8	138.8	34.0	27.3	51.4	21.5	2470.0	75.0	130.0	27.0	9933.9	35	
57	OK-HI	179.1	99.6	92.5	140.3	137.9	65.9	134.3	34.4	25.6	51.1	12.9	747.0	72.0	27.0	27.0	9933.9	38	
58	HAIMI	180.8	102.1	97.9	140.4	137.2	76.6	134.7	35.4	25.0	51.4	8.3	706.4	64.0	3.0	42.0	9359.1	106	
59	TAIYU	175.5	99.2	91.7	137.7	135.2	75.8	132.0	36.0	24.5	54.2	10.0	420.0						

	Sample	Marvin's No.	No. 9	No. 8	No. 17	No. 48	No. 45	No. 52	No. 54	No. 55	Av. temp.	Av. rel. humid.	Chrono.	Abs. (latitude)	Ge. crs. distance	Av. sample size		
1	ZOKKNTM	184.5	97.0	143.8	139.6	67.3	141.3	32.0	26.5	49.3	14.1	151.0	66.8	4300.0	36.0	1089.5	54	
2	BAII	187.1	92.8	143.0	130.7	73.9	138.9	33.7	26.1	53.4	-1.0	367.3	73.4	7100.0	53.0	819.0	49	
3	CERNC	189.9	98.5	141.0	140.5	68.8	129.1	32.5	25.7	51.3	11.0	580.0	77.1	5900.0	44.0	4398.1	56	
4	S-ERGO	182.5	91.1	131.6	134.1	68.5	123.6	31.5	24.8	48.8	22.9	0.6	42.0	6000.0	27.0	2456.0	65	
5	S-GRAD	185.1	91.0	130.9	130.7	67.0	124.7	32.1	24.7	51.1	1.1	41.1	70.0	2100.0	21.0	1200.0	64	
6	YAYOVMG	183.0	95.9	142.0	135.2	72.6	139.2	34.6	26.9	52.9	15.0	1620.0	57.0	333.0	34.0	10131.3	48	
7	YAYOYUKM	183.9	95.8	142.4	137.9	74.7	139.4	34.3	27.0	52.6	15.9	854.2	68.5	2200.0	33.7	10075.9	95	
8	YAYOSAGA	183.4	96.1	142.3	135.7	70.2	139.8	33.8	27.4	51.1	15.5	1280.4	68.0	2200.0	33.4	10047.7	43	
9	EKVEN	192.8	96.2	134.3	138.9	76.7	140.5	35.4	24.4	55.1	-7.0	300.0	85.0	2000.0	66.0	11754.9	50	
10	EVV	181.7	92.8	143.0	130.7	73.9	138.9	33.7	24.5	52.9	14.1	21.2	70.0	1100.0	30.0	730.0	49	
11	TAGAR	186.3	96.8	142.2	136.6	72.0	137.5	32.6	24.9	52.1	11.0	800.0	60.0	2500.0	51.0	1702.9	68	
12	ZOLTI	185.2	96.1	140.5	134.6	71.3	133.8	32.8	25.0	51.0	10.3	435.0	74.0	2000.0	47.0	4026.8	40	
13	SARMF	184.0	98.0	146.8	135.0	71.0	137.3	33.3	25.1	51.4	10.4	387.7	76.8	2000.0	47.0	4624.0	28	
14	NPLSK	185.7	97.1	140.2	136.7	71.7	133.4	32.9	24.8	51.0	10.0	530.0	71.5	2000.0	45.0	4404.8	97	
15	TAISL	183.6	96.1	141.2	135.7	71.8	134.4	32.1	24.7	52.6	11.0	250.0	52.0	2500.0	53.0	1650.0	65	
16	MANNH	179.9	96.2	142.2	136.3	71.3	136.7	34.4	25.8	52.6	11.0	300.0	54.0	2000.0	40.0	2452.8	89	
17	USUNN	179.1	96.6	145.7	132.8	71.4	136.3	33.7	25.6	52.1	2.7	384.2	53.4	1900.0	42.0	5947.8	40	
18	CHAWIN	183.4	96.3	143.5	138.8	70.7	131.1	34.8	27.4	51.3	0.0	60.0	54.0	3000.0	42.0	5386.0	50	
19	SHANP	186.5	95.7	137.6	140.2	70.5	131.7	33.1	25.0	54.4	12.0	457	43.3	2600.0	37.0	5679.4	53	
20	YOGH	186.1	87.0	142.8	136.0	70.8	136.4	32.7	24.7	52.9	17.0	265.0	52.0	2000.0	45.0	1879.4	46	
21	BRTS	187.4	95.1	141.4	134.9	71.1	136.6	33.6	24.7	52.1	11.0	800.0	52.0	1818.0	45.0	5188.1	65	
22	LABA'	185.2	96.2	143.0	137.1	71.1	132.5	30.2	24.4	49.2	9.0	890.0	64.0	2300.0	51.0	5838.9	83	
23	GAULS	186.6	96.5	143.2	132.9	70.1	131.3	32.4	24.6	51.5	10.0	63.0	78.0	2500.0	49.0	5703.3	70	
24	ETRUS	186.5	96.1	143.2	134.3	70.8	132.2	33.1	24.1	51.0	13.1	816.0	75.3	2000.0	43.0	4794.1	57	
25	TRAC	183.0	96.0	141.2	135.0	71.0	135.9	32.9	24.7	51.6	11.0	400.0	42.0	2400.0	44.0	4517.3	89	
26	POMPE	184.6	95.7	142.6	133.1	70.7	134.7	34.1	24.1	51.0	10.5	200.0	50.0	2000.0	41.0	4513.7	53	
27	TARRG	186.8	96.2	142.0	133.6	71.0	134.8	33.7	24.9	52.9	15.0	990.0	54.0	2100.0	41.0	5262.0	87	
28	GREEP	186.7	96.8	140.8	133.0	69.0	131.9	32.7	24.7	50.8	16.5	573.8	63.0	2500.0	42.0	3980.3	50	
29	GREHO	184.4	96.7	142.5	133.2	69.7	131.1	33.5	24.8	50.8	16.5	61.0	573.8	63.0	2100.0	40.0	3988.3	60
30	YOGH	186.4	95.5	142.6	134.6	70.4	133.8	31.5	24.7	52.9	11.0	200.0	50.0	2000.0	46.0	4006.6	66	
31	SHARI	186.4	95.5	142.6	134.7	70.5	133.8	31.5	24.7	52.9	11.0	200.0	50.0	2000.0	46.0	4006.6	66	
32	PNT-2	191.7	92.2	136.0	71.8	132.0	30.9	24.7	52.0	11.0	200.0	50.0	2000.0	46.0	4006.6	66		
33	LACHI	184.5	95.5	138.6	133.8	70.1	128.4	32.5	24.7	51.4	19.7	514.5	61.0	2000.0	30.0	2957.7	199	
34	GIZEH	183.5	94.8	134.1	134.1	70.4	128.7	33.7	24.7	51.8	19.8	51.0	57.0	2000.0	30.0	2950.0	180	
35	SAKRI	185.0	96.0	141.0	137.0	70.7	136.3	32.0	24.9	52.0	11.0	300.0	52.0	2000.0	41.0	5131.3	80	
36	MEJLAU	186.7	95.3	142.0	133.7	70.4	136.7	32.1	24.7	51.3	11.0	200.0	50.0	2000.0	41.0	5132.5	80	
37	SIWAH	184.2	95.6	142.6	133.0	71.5	125.0	31.1	24.7	50.5	21.5	200.0	50.0	2000.0	41.0	5132.8	68	
38	N-EGY	181.9	92.3	137.4	134.7	71.5	127.6	33.3	24.7	51.4	12.0	400.0	50.0	2000.0	41.0	2973.0	38	
39	NAG-E	185.1	95.5	137.1	136.6	71.2	127.6	33.3	25.0	52.7	20.0	45.0	50.0	2000.0	40.0	2745.0	37	
40	DEN-2	182.3	92.5	142.6	134.6	71.0	128.2	32.0	24.7	51.0	16.0	41.0	50.0	2000.0	40.0	2745.0	36	
41	BRGBR	184.9	95.6	142.6	134.8	71.0	128.0	32.0	24.7	51.0	16.0	400.0	50.0	2000.0	40.0	2745.0	35	
42	ABV-1	184.9	93.2	136.2	142.7	74.7	129.7	33.5	25.5	52.9	2.0	450.0	52.0	2000.0	40.0	2745.0	35	
43	SEBIA	181.3	95.6	133.4	134.0	71.8	129.0	32.2	25.1	50.3	2.5	34.0	52.0	2000.0	41.0	2745.0	35	
44	THEBN	181.8	93.6	138.3	137.1	72.0	127.6	33.1	25.0	51.0	20.0	2100.0	41.0	2745.0	35			
45	QUBIT	186.6	94.4	142.4	137.7	71.5	128.5	32.6	25.3	52.9	18.8	51.0	56.0	2000.0	41.0	2745.0	35	
46	TRGO	182.4	95.4	142.4	137.7	71.5	128.5	32.6	25.3	52.9	18.8	51.0	56.0	2000.0	41.0	2745.0	35	
47	EL-KS	182.7	92.7	139.9	132.9	70.2	125.7	32.8	25.0	52.4	20.0	2100.0	41.0	2745.0	35			
48	ELEPH	182.6	92.6	137.4	134.7	70.4	126.6	32.1	25.0	52.4	20.0	2100.0	41.0	2745.0	35			
49	LNU-A	182.3	93.2	134.0	133.7	69.7	127.5	32.2	25.1	50.7	26.1	4.0	27.6	2000.0	40.0	2745.0	35	
50	SHALV	184.7	97.2	138.2	138.2	73.3	131.8	32.8	25.8	52.4	5.4	37.4	51.0	2000.0	41.0	2745.0	35	
51	SKRKA	183.7	93.1	140.4	136.6	71.8	134.0	32.7	25.1	52.9	9.4	524.3	59.0	1100.0	41.0	2745.0	35	
52	U-NUB	184.9	93.7	133.4	133.0	68.6	126.6	32.3	24.8	50.4	26.6	1910.5	39.0	2000.0	41.0	2745.0	35	
53	AKSHA	182.3	93.1	139.3	134.7	67.5	121.1	32.5	26.7	51.5	24.6	20.0	2000.0	41.0	2745.0	35		
54	KOFFKOK	181.6	94.9	141.0	135.7	71.2	138.7	34.1	26.2	51.6	15.6	1261.6	72.0	13000.0	41.0	10313.1	49	
55	N-KAM	186.3	96.9	142.2	135.6	70.5	136.0	32.4	26.4	51.5	23.5	405.0	52.0	2000.0	41.0	2745.0	35	
56	SK-2020	185.3	95.7	142.5	134.7	70.5	136.5	32.4	26.4	51.5	23.5	405.0	52.0	2000.0	41.0	2745.0	35	
57	KAMNK	180.3	96.9	144.7	132.0	73.6	136.4	32.5	25.5	52.5	4.5	545.5	60.0	1000.0	41.0	2745.0	35	
58	VOLGA	184.1	98.5	143.7	134.7	73.3	135.9	32.5	25.5	52.5	10.8	300.0	52.0	2000.0	41.0	2745.0	35	
59	SARA	181.7	100.6	140.1	134.1	73.7	135.4	32.5	25.5	52.5	10.2	120.0	52.0	8000.0	41.0	2745.0	35	
60	TOJK	181.5	97.1	140.8	134.0	72.0	135.0	32.7	25.2	54.2	10.4	490.0	52.0	1000.0	41.0	2745.0	35	
61	FEHIR	182.2	98.5	142.6	133.1	69.6	133.0	32.9	24.2	51.2	9.7	884.6	70.0	1500.0	41.0	2745.0	35	
62	TRGO	187.0	95.1	142.6	133.4	70.7	131.9	32.4	24.2	51.6	9.0	400.0	52.0	1000.0	41.0	2745.0	35	
63	OKOSH	184.5	95.7	134.0	132.2	71.8	130.5	32.4	24.6	51.0	9.0	510.0	52.0	2000.0	41.0	2745.0	35	
64	ESKIK	175.0	97.0	147.8	132.6	69.3	136											