

world cultures

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J. Patrick Gray, Editor

PROLEGOMENA

Contents and How to Use This Issue

J. Patrick Gray

ARTICLES AND CODES

Atlas of Cultural Evolution

Peter N. Peregrine

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World Cultures CD Data Disk *William Divale*

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6. CODEBOOK

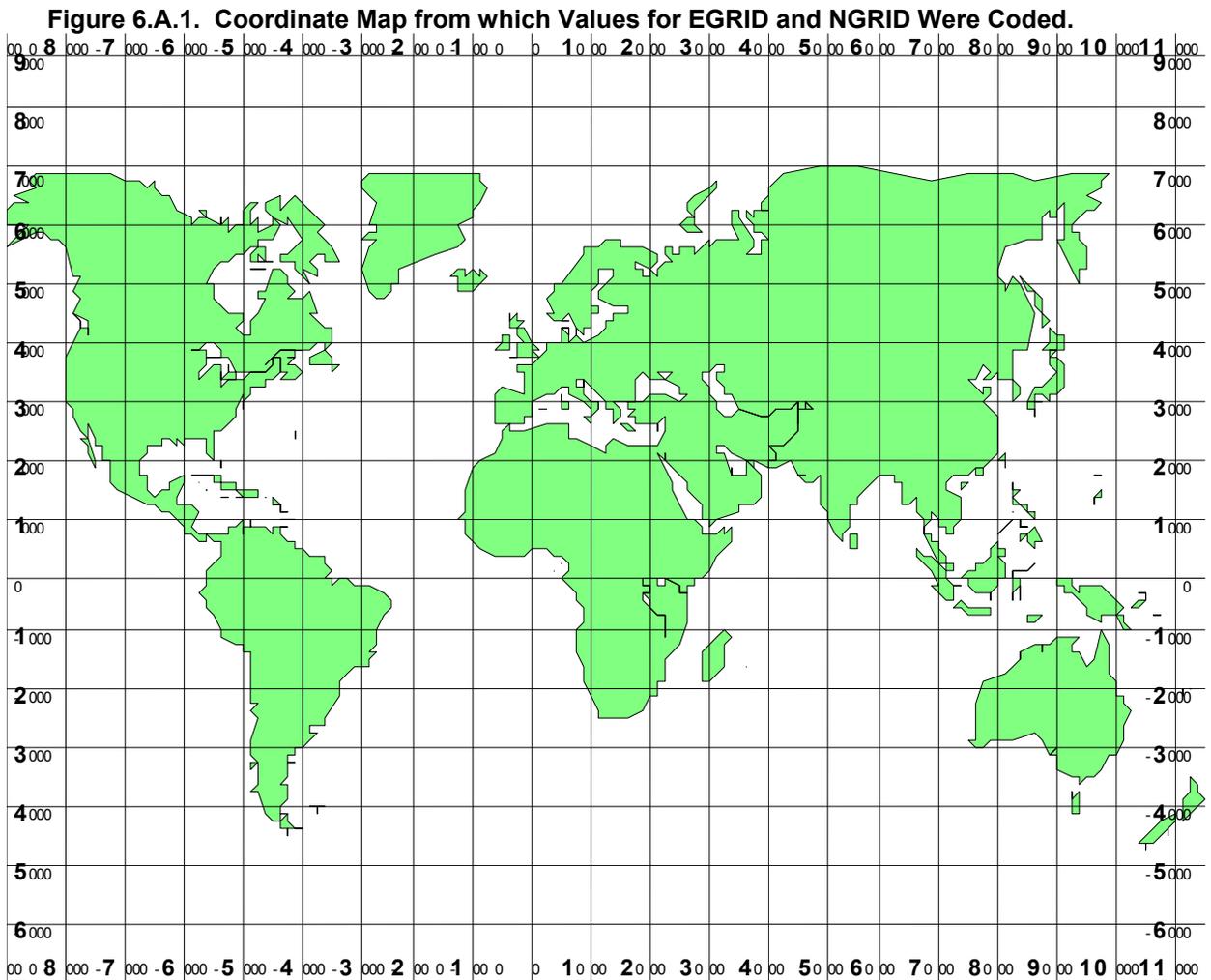
A. Pinpointing Variables

NUMBER: Case Number

NAME: Case Name

EGRID: East Grid Coordinate

NGRID: North Grid Coordinate



SEQUENCE: Evolutionary Sequence

CODE	DESCRIPTION	N	PERCENT
1	Inca	7	2.4
2	Maya	4	1.4
3	Central Mexico	5	1.7
4	Egypt	5	1.7
5	Shang	6	2.1
6	West Africa	4	1.4
7	Mesopotamia	9	3.1
8	Indus	5	1.7
	Total Coded	46	15.9
	Missing	243	84.1
	Total	289	100.0

START: Temporal Start Date**END:** Temporal End Date**DATE:** Temporal Midpoint**B. Cultural Complexity Variables****WRITING: Writing and Records**

CODE	DESCRIPTION	N	PERCENT
1	None	266	92.0
2	Mnemonic or nonwritten records	2	0.7
3	True writing	21	7.3
	Total	289	100.0

FIXITY: Fixity of Residence

CODE	DESCRIPTION	N	PERCENT
1	Nomadic	75	26.0
2	Seminomadic	51	17.6
3	Sedentary	163	56.4
	Total	289	100.0

AGRICULT: Dependence on Agriculture

CODE	DESCRIPTION	N	PERCENT
1	None	119	41.2
2	10% or more, but secondary	24	8.3
3	Primary	146	50.5
	Total	289	100.0

URBAN: Urbanization (Largest Settlement)

CODE	DESCRIPTION	N	PERCENT
1	Largest settlement < 100 persons	149	51.6
2	Largest settlement 100-399 persons	74	25.6
3	Largest settlement 400+ persons	66	22.8
	Total	289	100.0

TECHNOLO: Technological Specialization

CODE	DESCRIPTION	N	PERCENT
1	None	95	32.9
2	Ceramics	117	40.5
3	Metalwork (alloys, forging, casting)	77	26.6
	Total	289	100.0

TRANSPOR: Land Transport

CODE	DESCRIPTION	N	PERCENT
1	Human only	211	73.0
2	Pack or draft animals	55	19.0
3	Vehicles	23	8.0
	Total	289	100.0

MONEY: Money

CODE	DESCRIPTION	FREQUENCY	PERCENT
1	None	247	85.5
2	Domestically usable articles	22	7.6
3	Currency	20	6.9
	Total	289	100.0

DENSITY: Density of Population

CODE	DESCRIPTION	N	PERCENT
1	< 1 person/square mile	140	48.4
2	1-25 persons/square mile	119	41.2
3	26+ persons/square mile	30	10.4
	Total	289	100.0

INTEGRAT: Political Integration

CODE	DESCRIPTION	N	PERCENT
1	Autonomous local communities	116	40.1
2	1 or 2 levels above community	116	40.1
3	3 or more levels above community	57	19.7
	Total	289	100.0

STRATIFI: Social Stratification

CODE	DESCRIPTION	N	PERCENT
1	Egalitarian	136	47.1
2	2 social classes	83	28.7
3	3 or more social classes or castes	70	24.2
	Total	289	100.0

COMPLEXI: Cultural Complexity, the sum of the previous ten variables.

FACTOR1: Scale Factor, the sum of URBAN, DENSITY, FIXITY, and AGRICULT.

FACTOR2: Technology Factor, the sum of TECHNOLO, STRATIFI, WRITING, TRANSPOR, MONEY, and INTEGRAT.

C. Time Series Variables**TS1: 12,000 Years Ago**

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	267	92.4
1	Case Present	22	7.6
	Total	289	100.0

TS2: 11,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	261	90.3
1	Case Present	28	9.7
	Total	289	100.0

TS3: 10,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	252	87.2
1	Case Present	37	12.8
	Total	289	100.0

TS4: 9,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	247	85.5
1	Case Present	42	14.5
	Total	289	100.0

TS5: 8,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	235	81.3
1	Case Present	54	18.7
	Total	289	100.0

TS6: 7,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	221	76.5
1	Case Present	68	23.5
	Total	289	100.0

TS7: 6,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	217	75.1
1	Case Present	72	24.9
	Total	289	100.0

TS8: 5,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	216	74.4
1	Case Present	73	25.3
	Total	289	100.0

TS9: 4,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	217	75.1
1	Case Present	72	24.9
	Total	289	100.0

TS10: 3,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	215	74.4
1	Case Present	74	25.6
	Total	289	100.0

TS11: 2,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	210	72.7
1	Case Present	79	27.3
	Total	289	100.0

TS12: 1,000 Years Ago

CODE	DESCRIPTION	N	PERCENT
0	Case Absent	212	73.4
1	Case Present	77	26.6
	Total	289	100.0

TSM: Temporal Midpoint

CODE	DESCRIPTION	N	PERCENT
1	12kya	3	1.0
2	11kya	0	0.0
3	10kya	9	3.1
4	9kya	8	2.8
5	8kya	14	4.8
6	7kya	20	6.9
7	6kya	27	9.3
8	5kya	31	10.7
9	4kya	28	9.7
10	3kya	33	11.4
11	2kya	49	17.0
12	1kya	35	12.1
	Total Coded	257	88.9
	Missing	32	11.1
	Total	289	100.0

TSE: Temporal Endpoint

CODE	DESCRIPTION	N	PERCENT
1	12kya	4	1.4
2	11kya	4	1.4
3	10kya	1	0.3
4	9kya	6	2.1
5	8kya	11	3.8
6	7kya	14	4.8
7	6kya	17	5.9
8	5kya	27	9.3
9	4kya	33	11.4
10	3kya	44	15.2
11	2kya	35	12.1
12	1kya	77	26.6
	Total Coded	273	94.5
	Missing	16	5.5
	Total	289	100.0

7. DESCRIPTIVE STATISTICS

A. All ACE Cases

Table 7.A.1 -- All ACE Cases

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	289	1	3	1.15	0.525
FIXITY OF RESIDENCE	289	1	3	2.30	0.856
AGRICULTURE	289	1	3	2.09	0.955
URBANIZATION	289	1	3	1.71	0.815
TECHNOLOGICAL SPECIALIZATION	289	1	3	1.94	0.770
LAND TRANSPORT	289	1	3	1.35	0.623
MONEY	289	1	3	1.21	0.555
DENSITY OF POPULATION	289	1	3	1.62	0.667
POLITICAL INTEGRATION	289	1	3	1.80	0.748
SOCIAL STRATIFICATION	289	1	3	1.77	0.814
CULTURAL COMPLEXITY	289	10	30	16.95	5.979
FACTOR1	289	6	18	9.22	3.315
FACTOR2	289	4	12	7.73	2.976

Table 7.A.2 -- ACE Cases for the Last 40,000 Years

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	276	1	3	1.16	0.536
FIXITY OF RESIDENCE	276	1	3	2.37	0.827
AGRICULTURE	276	1	3	2.14	0.946
URBANIZATION	276	1	3	1.75	0.819
TECHNOLOGICAL SPECIALIZATION	276	1	3	1.98	0.760
LAND TRANSPORT	276	1	3	1.37	0.633
MONEY	276	1	3	1.22	0.566
DENSITY OF POPULATION	276	1	3	1.65	0.669
POLITICAL INTEGRATION	276	1	3	1.83	0.744
SOCIAL STRATIFICATION	276	1	3	1.81	0.815
CULTURAL COMPLEXITY	276	10	30	17.28	5.920
FACTOR1	276	6	18	9.37	3.316
FACTOR2	276	4	12	7.91	2.930

Table 7.A.3 -- ACE Cases for the Last 12,000 Years

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	253	1	3	1.17	0.558
FIXITY OF RESIDENCE	253	1	3	2.48	0.759
AGRICULTURE	253	1	3	2.25	0.923
URBANIZATION	253	1	3	1.81	0.822
TECHNOLOGICAL SPECIALIZATION	253	1	3	2.07	0.731
LAND TRANSPORT	253	1	3	1.40	0.651
MONEY	253	1	3	1.25	0.587
DENSITY OF POPULATION	253	1	3	1.71	0.668
POLITICAL INTEGRATION	253	1	3	1.91	0.732
SOCIAL STRATIFICATION	253	1	3	1.88	0.813
CULTURAL COMPLEXITY	253	10	30	17.92	5.761
FACTOR1	253	6	18	9.68	3.297
FACTOR2	253	4	12	8.25	2.819

Table 7.A.4 -- ACE Cases 12,000 Years Ago.

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	22	1	1	1.00	0.000
FIXITY OF RESIDENCE	22	1	3	1.23	0.612
AGRICULTURE	22	1	2	1.05	0.213
URBANIZATION	22	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	22	1	2	1.05	0.213
LAND TRANSPORT	22	1	1	1.00	0.000
MONEY	22	1	1	1.00	0.000
DENSITY OF POPULATION	22	1	1	1.00	0.000
POLITICAL INTEGRATION	22	1	1	1.00	0.000
SOCIAL STRATIFICATION	22	1	1	1.00	0.000
CULTURAL COMPLEXITY	22	10	13	10.32	0.839
FACTOR1	22	6	7	6.05	0.213
FACTOR2	22	4	7	4.27	0.767

Table 7.A.5 -- ACE Cases 11,000 Years Ago.

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	28	1	1	1.00	0.000
FIXITY OF RESIDENCE	28	1	3	1.39	0.685
AGRICULTURE	28	1	3	1.11	0.416
URBANIZATION	28	1	2	1.04	0.189
TECHNOLOGICAL SPECIALIZATION	28	1	2	1.07	0.262
LAND TRANSPORT	28	1	2	1.07	0.262
MONEY	28	1	1	1.00	0.000
DENSITY OF POPULATION	28	1	2	1.04	0.189
POLITICAL INTEGRATION	28	1	2	1.04	0.189
SOCIAL STRATIFICATION	28	1	2	1.04	0.189
CULTURAL COMPLEXITY	28	10	20	10.79	1.969
FACTOR1	28	6	10	6.21	0.787
FACTOR2	28	4	10	4.57	1.289

Table 7.A.6 -- ACE Cases 10,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	37	1	1	1.00	0.000
FIXITY OF RESIDENCE	37	1	3	1.41	0.686
AGRICULTURE	37	1	3	1.16	0.553
URBANIZATION	37	1	2	1.08	0.277
TECHNOLOGICAL SPECIALIZATION	37	1	2	1.14	0.347
LAND TRANSPORT	37	1	2	1.05	0.229
MONEY	37	1	2	1.03	0.164
DENSITY OF POPULATION	37	1	2	1.08	0.277
POLITICAL INTEGRATION	37	1	2	1.08	0.277
SOCIAL STRATIFICATION	37	1	2	1.05	0.229
CULTURAL COMPLEXITY	37	10	20	11.08	2.488
FACTOR1	37	6	10	6.35	0.889
FACTOR2	37	4	10	4.73	1.661

Table 7.A.7 -- ACE Cases 9000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	42	1	1	1.00	0.000
FIXITY OF RESIDENCE	42	1	3	1.43	0.668
AGRICULTURE	42	1	3	1.17	0.537
URBANIZATION	42	1	2	1.07	0.261
TECHNOLOGICAL SPECIALIZATION	42	1	2	1.14	0.354
LAND TRANSPORT	42	1	2	1.05	0.216
MONEY	42	1	2	1.02	0.154
DENSITY OF POPULATION	42	1	2	1.10	0.297
POLITICAL INTEGRATION	42	1	2	1.10	0.297
SOCIAL STRATIFICATION	42	1	2	1.05	0.216
CULTURAL COMPLEXITY	42	10	20	11.12	2.421
FACTOR1	42	6	10	6.36	0.879
FACTOR2	42	4	10	4.76	1.605

Table 7.A.8 -- ACE Cases 8000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	54	1	3	1.04	0.272
FIXITY OF RESIDENCE	54	1	3	1.65	0.805
AGRICULTURE	54	1	3	1.37	0.760
URBANIZATION	54	1	3	1.17	0.423
TECHNOLOGICAL SPECIALIZATION	54	1	3	1.30	0.500
LAND TRANSPORT	54	1	3	1.11	0.372
MONEY	54	1	3	1.06	0.302
DENSITY OF POPULATION	54	1	3	1.20	0.451
POLITICAL INTEGRATION	54	1	3	1.22	0.462
SOCIAL STRATIFICATION	54	1	3	1.15	0.408
CULTURAL COMPLEXITY	54	10	30	12.26	3.968
FACTOR1	54	6	18	6.87	1.933
FACTOR2	54	4	12	5.39	2.261

Table 7.A.9 -- ACE Cases 7000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	68	1	3	1.03	0.243
FIXITY OF RESIDENCE	68	1	3	1.90	0.849
AGRICULTURE	68	1	3	1.62	0.864
URBANIZATION	68	1	3	1.19	0.432
TECHNOLOGICAL SPECIALIZATION	68	1	3	1.43	0.527
LAND TRANSPORT	68	1	3	1.15	0.396
MONEY	68	1	3	1.04	0.270
DENSITY OF POPULATION	68	1	3	1.29	0.490
POLITICAL INTEGRATION	68	1	3	1.31	0.496
SOCIAL STRATIFICATION	68	1	3	1.25	0.469
CULTURAL COMPLEXITY	68	10	30	13.21	4.083
FACTOR1	68	6	18	7.21	1.897
FACTOR2	68	4	12	6.00	2.394

Table 7.A.10 -- ACE Cases 6000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	72	1	3	1.03	0.236
FIXITY OF RESIDENCE	72	1	3	1.99	0.847
AGRICULTURE	72	1	3	1.69	0.882
URBANIZATION	72	1	3	1.21	0.442
TECHNOLOGICAL SPECIALIZATION	72	1	3	1.54	0.627
LAND TRANSPORT	72	1	3	1.19	0.432
MONEY	72	1	3	1.06	0.285
DENSITY OF POPULATION	72	1	3	1.33	0.504
POLITICAL INTEGRATION	72	1	3	1.37	0.542
SOCIAL STRATIFICATION	72	1	3	1.32	0.526
CULTURAL COMPLEXITY	72	10	30	13.74	4.292
FACTOR1	72	6	18	7.51	2.076
FACTOR2	72	4	12	6.22	2.416

Table 7.A.11 -- ACE Cases 5000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	73	1	3	1.14	0.509
FIXITY OF RESIDENCE	73	1	3	2.08	0.846
AGRICULTURE	73	1	3	1.78	0.917
URBANIZATION	73	1	3	1.44	0.726
TECHNOLOGICAL SPECIALIZATION	73	1	3	1.75	0.722
LAND TRANSPORT	73	1	3	1.30	0.617
MONEY	73	1	3	1.19	0.569
DENSITY OF POPULATION	73	1	3	1.47	0.689
POLITICAL INTEGRATION	73	1	3	1.49	0.690
SOCIAL STRATIFICATION	73	1	3	1.45	0.708
CULTURAL COMPLEXITY	73	10	30	15.10	5.912
FACTOR1	73	6	18	8.33	3.300
FACTOR2	73	4	12	6.77	2.860

Table 7.A.12 -- ACE Cases 4000 Years Ago.

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	72	1	3	1.18	0.565
FIXITY OF RESIDENCE	72	1	3	2.17	0.856
AGRICULTURE	72	1	3	1.90	0.952
URBANIZATION	72	1	3	1.51	0.769
TECHNOLOGICAL SPECIALIZATION	72	1	3	1.89	0.779
LAND TRANSPORT	72	1	3	1.43	0.688
MONEY	72	1	3	1.21	0.580
DENSITY OF POPULATION	72	1	3	1.50	0.671
POLITICAL INTEGRATION	72	1	3	1.63	0.721
SOCIAL STRATIFICATION	72	1	3	1.60	0.763
CULTURAL COMPLEXITY	72	10	30	16.01	6.131
FACTOR1	72	6	18	8.93	3.562
FACTOR2	72	4	12	7.08	2.877

Table 7.A.13 -- ACE Cases 3000 Years Ago.

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	74	1	3	1.11	0.455
FIXITY OF RESIDENCE	74	1	3	2.38	0.806
AGRICULTURE	74	1	3	2.07	0.970
URBANIZATION	74	1	3	1.72	0.820
TECHNOLOGICAL SPECIALIZATION	74	1	3	2.05	0.738
LAND TRANSPORT	74	1	3	1.43	0.664
MONEY	74	1	3	1.19	0.515
DENSITY OF POPULATION	74	1	3	1.59	0.618
POLITICAL INTEGRATION	74	1	3	1.77	0.693
SOCIAL STRATIFICATION	74	1	3	1.74	0.777
CULTURAL COMPLEXITY	74	10	30	17.05	5.606
FACTOR1	74	6	18	9.30	3.139
FACTOR2	74	4	12	7.76	2.852

Table 7.A.14 -- ACE Cases 2000 Years Ago.

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	79	1	3	1.13	0.490
FIXITY OF RESIDENCE	79	1	3	2.58	0.672
AGRICULTURE	79	1	3	2.16	0.953
URBANIZATION	79	1	3	1.87	0.838
TECHNOLOGICAL SPECIALIZATION	79	1	3	2.23	0.678
LAND TRANSPORT	79	1	3	1.32	0.631
MONEY	79	1	3	1.29	0.581
DENSITY OF POPULATION	79	1	3	1.70	0.648
POLITICAL INTEGRATION	79	1	3	1.97	0.733
SOCIAL STRATIFICATION	79	1	3	1.94	0.852
CULTURAL COMPLEXITY	79	10	30	18.18	5.215
FACTOR1	79	6	18	9.86	3.041
FACTOR2	79	4	12	8.32	2.672

Table 7.A.15 -- ACE Cases 1000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	77	1	3	1.06	0.338
FIXITY OF RESIDENCE	77	1	3	2.68	0.572
AGRICULTURE	77	1	3	2.35	0.900
URBANIZATION	77	1	3	1.97	0.725
TECHNOLOGICAL SPECIALIZATION	77	1	3	2.16	0.563
LAND TRANSPORT	77	1	2	1.09	0.289
MONEY	77	1	3	1.23	0.456
DENSITY OF POPULATION	77	1	3	1.81	0.650
POLITICAL INTEGRATION	77	1	3	2.01	0.659
SOCIAL STRATIFICATION	77	1	3	1.96	0.818
CULTURAL COMPLEXITY	77	10	25	18.31	4.305
FACTOR1	77	6	14	9.51	2.138
FACTOR2	77	4	11	8.81	2.401

B. ACE New World Cases**Table 7.B.1 -- ACE New World Cases, Last 12,000 Years**

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	126	1	3	1.06	0.318
FIXITY OF RESIDENCE	126	1	3	2.29	0.838
AGRICULTURE	126	1	3	1.99	0.959
URBANIZATION	126	1	3	1.74	0.812
TECHNOLOGICAL SPECIALIZATION	126	1	3	1.83	0.716
LAND TRANSPORT	126	1	2	1.11	0.316
MONEY	126	1	3	1.06	0.262
DENSITY OF POPULATION	126	1	2	1.46	0.500
POLITICAL INTEGRATION	126	1	3	1.77	0.750
SOCIAL STRATIFICATION	126	1	3	1.67	0.769
CULTURAL COMPLEXITY	126	10	25	15.95	5.093
FACTOR1	126	6	14	8.48	2.442
FACTOR2	126	4	11	7.48	2.830

Table 7.B.2 -- ACE New World Cases 12,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	2	1	1	1.00	0.000
FIXITY OF RESIDENCE	2	1	1	1.00	0.000
AGRICULTURE	2	1	1	1.00	0.000
URBANIZATION	2	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	2	1	1	1.00	0.000
LAND TRANSPORT	2	1	1	1.00	0.000
MONEY	2	1	1	1.00	0.000
DENSITY OF POPULATION	2	1	1	1.00	0.000
POLITICAL INTEGRATION	2	1	1	1.00	0.000
SOCIAL STRATIFICATION	2	1	1	1.00	0.000
CULTURAL COMPLEXITY	2	10	10	10.00	0.000
FACTOR1	2	6	6	6.00	0.000
FACTOR2	2	4	4	4.00	0.000

Table 7.B.3 -- ACE New World Cases 11,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	5	1	1	1.00	0.000
FIXITY OF RESIDENCE	5	1	1	1.00	0.000
AGRICULTURE	5	1	1	1.00	0.000
URBANIZATION	5	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	5	1	1	1.00	0.000
LAND TRANSPORT	5	1	1	1.00	0.000
MONEY	5	1	1	1.00	0.000
DENSITY OF POPULATION	5	1	1	1.00	0.000
POLITICAL INTEGRATION	5	1	1	1.00	0.000
SOCIAL STRATIFICATION	5	1	1	1.00	0.000
CULTURAL COMPLEXITY	5	10	10	10.00	0.000
FACTOR1	5	6	6	6.00	0.000
FACTOR2	5	4	4	4.00	0.000

Table 7.B.4 -- ACE New World Cases 10,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	10	1	1	1.00	0.000
FIXITY OF RESIDENCE	10	1	1	1.00	0.000
AGRICULTURE	10	1	1	1.00	0.000
URBANIZATION	10	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	10	1	1	1.00	0.000
LAND TRANSPORT	10	1	1	1.00	0.000
MONEY	10	1	1	1.00	0.000
DENSITY OF POPULATION	10	1	1	1.00	0.000
POLITICAL INTEGRATION	10	1	1	1.00	0.000
SOCIAL STRATIFICATION	10	1	1	1.00	0.000
CULTURAL COMPLEXITY	10	10	10	10.00	0.000
FACTOR1	10	6	6	6.00	0.000
FACTOR2	10	4	4	4.00	0.000

Table 7.B.5 -- ACE New World Cases 9000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	14	1	1	1.00	0.000
FIXITY OF RESIDENCE	14	1	2	1.14	0.363
AGRICULTURE	14	1	1	1.00	0.000
URBANIZATION	14	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	14	1	1	1.00	0.000
LAND TRANSPORT	14	1	1	1.00	0.000
MONEY	14	1	1	1.00	0.000
DENSITY OF POPULATION	14	1	1	1.00	0.000
POLITICAL INTEGRATION	14	1	1	1.00	0.000
SOCIAL STRATIFICATION	14	1	1	1.00	0.000
CULTURAL COMPLEXITY	14	10	11	10.14	0.363
FACTOR1	14	6	6	6.00	0.000
FACTOR2	14	4	5	4.14	0.363

Table 7.B.6 -- ACE New World Cases 8000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	20	1	1	1.00	.000
FIXITY OF RESIDENCE	20	1	2	1.20	0.410
AGRICULTURE	20	1	1	1.00	0.000
URBANIZATION	20	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	20	1	1	1.00	0.000
LAND TRANSPORT	20	1	1	1.00	0.000
MONEY	20	1	1	1.00	0.000
DENSITY OF POPULATION	20	1	1	1.00	0.000
POLITICAL INTEGRATION	20	1	1	1.00	0.000
SOCIAL STRATIFICATION	20	1	1	1.00	0.000
CULTURAL COMPLEXITY	20	10	11	10.20	0.410
FACTOR1	20	6	6	6.00	0.000
FACTOR2	20	4	5	4.20	0.410

Table 7.B.7 -- ACE New World Cases 7000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	25	1	1	1.00	0.000
FIXITY OF RESIDENCE	25	1	2	1.28	0.458
AGRICULTURE	25	1	2	1.08	0.277
URBANIZATION	25	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	25	1	2	1.04	0.200
LAND TRANSPORT	25	1	1	1.00	0.000
MONEY	25	1	1	1.00	0.000
DENSITY OF POPULATION	25	1	1	1.00	0.000
POLITICAL INTEGRATION	25	1	1	1.00	0.000
SOCIAL STRATIFICATION	25	1	1	1.00	0.000
CULTURAL COMPLEXITY	25	10	12	10.40	0.577
FACTOR1	25	6	7	6.04	0.200
FACTOR2	25	4	5	4.36	0.490

Table 7.B.8 -- ACE New World Cases 6000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	26	1	1	1.00	0.000
FIXITY OF RESIDENCE	26	1	3	1.38	0.571
AGRICULTURE	26	1	2	1.08	0.272
URBANIZATION	26	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	26	1	2	1.04	0.196
LAND TRANSPORT	26	1	1	1.00	0.000
MONEY	26	1	1	1.00	0.000
DENSITY OF POPULATION	26	1	1	1.00	0.000
POLITICAL INTEGRATION	26	1	2	1.04	0.196
SOCIAL STRATIFICATION	26	1	1	1.00	0.000
CULTURAL COMPLEXITY	26	10	12	10.54	0.706
FACTOR1	26	6	7	6.08	0.272
FACTOR2	26	4	6	4.46	0.582

Table 7.B.9 -- ACE New World Cases 5000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	26	1	1	1.00	0.000
FIXITY OF RESIDENCE	26	1	3	1.46	0.647
AGRICULTURE	26	1	2	1.08	0.272
URBANIZATION	26	1	2	1.08	0.272
TECHNOLOGICAL SPECIALIZATION	26	1	2	1.15	0.368
LAND TRANSPORT	26	1	1	1.00	0.000
MONEY	26	1	1	1.00	0.000
DENSITY OF POPULATION	26	1	2	1.08	0.272
POLITICAL INTEGRATION	26	1	2	1.04	0.196
SOCIAL STRATIFICATION	26	1	1	1.00	0.000
CULTURAL COMPLEXITY	26	10	15	10.88	1.306
FACTOR1	26	6	7	6.19	0.402
FACTOR2	26	4	8	4.69	1.011

Table 7.B.10 -- ACE New World Cases 4000 Years Ago

Descriptive Statistics -- 4000 Years Ago, New World					
	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	27	1	1	1.00	0.000
FIXITY OF RESIDENCE	27	1	3	1.59	0.797
AGRICULTURE	27	1	3	1.22	0.577
URBANIZATION	27	1	3	1.22	0.506
TECHNOLOGICAL SPECIALIZATION	27	1	2	1.22	0.424
LAND TRANSPORT	27	1	2	1.04	0.192
MONEY	27	1	1	1.00	0.000
DENSITY OF POPULATION	27	1	2	1.15	0.362
POLITICAL INTEGRATION	27	1	2	1.11	0.320
SOCIAL STRATIFICATION	27	1	2	1.07	0.267
CULTURAL COMPLEXITY	27	10	21	11.63	2.817
FACTOR1	27	6	10	6.44	0.974
FACTOR2	27	4	11	5.19	1.942

Table 7.B.11 -- ACE New World Cases 3000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	35	1	1	1.00	0.000
FIXITY OF RESIDENCE	35	1	3	2.17	0.857
AGRICULTURE	35	1	3	1.69	0.932
URBANIZATION	35	1	3	1.54	0.741
TECHNOLOGICAL SPECIALIZATION	35	1	2	1.60	0.497
LAND TRANSPORT	35	1	2	1.09	0.284
MONEY	35	1	2	1.09	0.284
DENSITY OF POPULATION	35	1	2	1.43	0.502
POLITICAL INTEGRATION	35	1	3	1.49	0.562
SOCIAL STRATIFICATION	35	1	3	1.40	0.553
CULTURAL COMPLEXITY	35	10	21	14.49	4.266
FACTOR1	35	6	11	7.66	1.679
FACTOR2	35	4	11	6.83	2.717

Table 7.B.12 -- ACE New World Cases 2000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	50	1	3	1.04	0.283
FIXITY OF RESIDENCE	50	1	3	2.56	0.675
AGRICULTURE	50	1	3	2.02	0.979
URBANIZATION	50	1	3	1.78	0.790
TECHNOLOGICAL SPECIALIZATION	50	1	3	1.98	0.654
LAND TRANSPORT	50	1	2	1.08	0.274
MONEY	50	1	3	1.12	0.385
DENSITY OF POPULATION	50	1	2	1.54	0.503
POLITICAL INTEGRATION	50	1	3	1.86	0.729
SOCIAL STRATIFICATION	50	1	3	1.74	0.777
CULTURAL COMPLEXITY	50	10	25	16.70	4.581
FACTOR1	50	6	14	8.80	2.277
FACTOR2	50	4	11	7.90	2.517

Table 7.B.13 -- ACE New World Cases 1000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	60	1	3	1.08	0.381
FIXITY OF RESIDENCE	60	1	3	2.62	0.613
AGRICULTURE	60	1	3	2.30	0.926
URBANIZATION	60	1	3	2.00	0.736
TECHNOLOGICAL SPECIALIZATION	60	1	3	2.13	0.596
LAND TRANSPORT	60	1	2	1.12	0.324
MONEY	60	1	3	1.12	0.372
DENSITY OF POPULATION	60	1	2	1.63	0.486
POLITICAL INTEGRATION	60	1	3	2.05	0.699
SOCIAL STRATIFICATION	60	1	3	1.90	0.775
CULTURAL COMPLEXITY	60	10	25	17.93	4.430
FACTOR1	60	6	14	9.38	2.278
FACTOR2	60	4	11	8.55	2.411

C. ACE Old World Cases

Table 7.C.1 -- ACE Old World Cases, Last 12,000 Years

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	127	1	3	1.29	0.703
FIXITY OF RESIDENCE	127	1	3	2.67	0.618
AGRICULTURE	127	1	3	2.50	0.815
URBANIZATION	127	1	3	1.89	0.828
TECHNOLOGICAL SPECIALIZATION	127	1	3	2.31	0.663
LAND TRANSPORT	127	1	3	1.69	0.763
MONEY	127	1	3	1.43	0.741
DENSITY OF POPULATION	127	1	3	1.95	0.722
POLITICAL INTEGRATION	127	1	3	2.05	0.688
SOCIAL STRATIFICATION	127	1	3	2.09	0.801
CULTURAL COMPLEXITY	127	10	30	19.87	5.738
FACTOR1	127	6	18	10.87	3.600
FACTOR2	127	4	12	9.01	2.602

Table 7.C.2 -- ACE Old World Cases 12,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	20	1	1	1.00	0.000
FIXITY OF RESIDENCE	20	1	3	1.25	0.639
AGRICULTURE	20	1	2	1.05	0.224
URBANIZATION	20	1	1	1.00	0.000
TECHNOLOGICAL SPECIALIZATION	20	1	2	1.05	0.224
LAND TRANSPORT	20	1	1	1.00	0.000
MONEY	20	1	1	1.00	0.000
DENSITY OF POPULATION	20	1	1	1.00	0.000
POLITICAL INTEGRATION	20	1	1	1.00	0.000
SOCIAL STRATIFICATION	20	1	1	1.00	0.000
CULTURAL COMPLEXITY	20	10	13	10.35	0.875
FACTOR1	20	6	7	6.05	0.224
FACTOR2	20	4	7	4.30	0.801

Table 7.C.3 -- ACE Old World Cases 11,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	23	1	1	1.00	0.000
FIXITY OF RESIDENCE	23	1	3	1.48	0.730
AGRICULTURE	23	1	3	1.13	0.458
URBANIZATION	23	1	2	1.04	0.209
TECHNOLOGICAL SPECIALIZATION	23	1	2	1.09	0.288
LAND TRANSPORT	23	1	2	1.09	0.288
MONEY	23	1	1	1.00	0.000
DENSITY OF POPULATION	23	1	2	1.04	0.209
POLITICAL INTEGRATION	23	1	2	1.04	0.209
SOCIAL STRATIFICATION	23	1	2	1.04	0.209
CULTURAL COMPLEXITY	23	10	20	10.96	2.142
FACTOR1	23	6	10	6.26	0.864
FACTOR2	23	4	10	4.70	1.396

Table 7.C.4 -- ACE Old World Cases 10,000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	27	1	1	1.00	0.000
FIXITY OF RESIDENCE	27	1	3	1.56	0.751
AGRICULTURE	27	1	3	1.22	0.641
URBANIZATION	27	1	2	1.11	0.320
TECHNOLOGICAL SPECIALIZATION	27	1	2	1.19	0.396
LAND TRANSPORT	27	1	2	1.07	0.267
MONEY	27	1	2	1.04	0.192
DENSITY OF POPULATION	27	1	2	1.11	0.320
POLITICAL INTEGRATION	27	1	2	1.11	0.320
SOCIAL STRATIFICATION	27	1	2	1.07	0.267
CULTURAL COMPLEXITY	27	10	20	11.48	2.820
FACTOR1	27	6	10	6.48	1.014
FACTOR2	27	4	10	5.00	1.881

Table 7.C.5 -- ACE Old World Cases 9000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	28	1	1	1.00	0.000
FIXITY OF RESIDENCE	28	1	3	1.57	0.742
AGRICULTURE	28	1	3	1.25	0.645
URBANIZATION	28	1	2	1.11	0.315
TECHNOLOGICAL SPECIALIZATION	28	1	2	1.21	0.418
LAND TRANSPORT	28	1	2	1.07	0.262
MONEY	28	1	2	1.04	0.189
DENSITY OF POPULATION	28	1	2	1.14	0.356
POLITICAL INTEGRATION	28	1	2	1.14	0.356
SOCIAL STRATIFICATION	28	1	2	1.07	0.262
CULTURAL COMPLEXITY	28	10	20	11.61	2.846
FACTOR1	28	6	10	6.54	1.036
FACTOR2	28	4	10	5.07	1.884

Table 7.C.6 -- ACE Old World Cases 8000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	34	1	3	1.06	0.343
FIXITY OF RESIDENCE	34	1	3	1.91	0.866
AGRICULTURE	34	1	3	1.59	0.892
URBANIZATION	34	1	3	1.26	0.511
TECHNOLOGICAL SPECIALIZATION	34	1	3	1.47	0.563
LAND TRANSPORT	34	1	3	1.18	0.459
MONEY	34	1	3	1.09	0.379
DENSITY OF POPULATION	34	1	3	1.32	0.535
POLITICAL INTEGRATION	34	1	3	1.35	0.544
SOCIAL STRATIFICATION	34	1	3	1.24	0.496
CULTURAL COMPLEXITY	34	10	30	13.47	4.594
FACTOR1	34	6	18	7.38	2.296
FACTOR2	34	4	12	6.09	2.598

Table 7.C.7 -- ACE Old World Cases 7000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	43	1	3	1.05	0.305
FIXITY OF RESIDENCE	43	1	3	2.26	0.819
AGRICULTURE	43	1	3	1.93	0.936
URBANIZATION	43	1	3	1.30	0.513
TECHNOLOGICAL SPECIALIZATION	43	1	3	1.65	0.529
LAND TRANSPORT	43	1	3	1.23	0.480
MONEY	43	1	3	1.07	0.338
DENSITY OF POPULATION	43	1	3	1.47	0.550
POLITICAL INTEGRATION	43	1	3	1.49	0.551
SOCIAL STRATIFICATION	43	1	3	1.40	0.541
CULTURAL COMPLEXITY	43	10	30	14.84	4.359
FACTOR1	43	6	18	7.88	2.107
FACTOR2	43	4	12	6.95	2.544

Table 7.C.8 -- ACE Old World Cases 6000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	46	1	3	1.04	0.295
FIXITY OF RESIDENCE	46	1	3	2.33	0.790
AGRICULTURE	46	1	3	2.04	0.918
URBANIZATION	46	1	3	1.33	0.519
TECHNOLOGICAL SPECIALIZATION	46	1	3	1.83	0.608
LAND TRANSPORT	46	1	3	1.30	0.511
MONEY	46	1	3	1.09	0.354
DENSITY OF POPULATION	46	1	3	1.52	0.547
POLITICAL INTEGRATION	46	1	3	1.57	0.583
SOCIAL STRATIFICATION	46	1	3	1.50	0.587
CULTURAL COMPLEXITY	46	10	30	15.54	4.421
FACTOR1	46	6	18	8.33	2.212
FACTOR2	46	4	12	7.22	2.494

Table 7.C.9 -- ACE Old World Cases 5000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	47	1	3	1.21	0.623
FIXITY OF RESIDENCE	47	1	3	2.43	0.744
AGRICULTURE	47	1	3	2.17	0.916
URBANIZATION	47	1	3	1.64	0.819
TECHNOLOGICAL SPECIALIZATION	47	1	3	2.09	0.654
LAND TRANSPORT	47	1	3	1.47	0.718
MONEY	47	1	3	1.30	0.689
DENSITY OF POPULATION	47	1	3	1.68	0.755
POLITICAL INTEGRATION	47	1	3	1.74	0.736
SOCIAL STRATIFICATION	47	1	3	1.70	0.778
CULTURAL COMPLEXITY	47	10	30	17.43	6.181
FACTOR1	47	6	18	9.51	3.599
FACTOR2	47	4	12	7.91	2.910

Table 7.C.10 -- ACE Old World Cases 4000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	45	1	3	1.29	0.695
FIXITY OF RESIDENCE	45	1	3	2.51	0.695
AGRICULTURE	45	1	3	2.31	0.900
URBANIZATION	45	1	3	1.69	0.848
TECHNOLOGICAL SPECIALIZATION	45	1	3	2.29	0.661
LAND TRANSPORT	45	1	3	1.67	0.769
MONEY	45	1	3	1.33	0.707
DENSITY OF POPULATION	45	1	3	1.71	0.727
POLITICAL INTEGRATION	45	1	3	1.93	0.720
SOCIAL STRATIFICATION	45	1	3	1.91	0.793
CULTURAL COMPLEXITY	45	10	30	18.64	6.091
FACTOR1	45	6	18	10.42	3.720
FACTOR2	45	4	12	8.22	2.754

Table 7.C.11 -- ACE Old World Cases 3000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	39	1	3	1.21	0.615
FIXITY OF RESIDENCE	39	1	3	2.56	0.718
AGRICULTURE	39	1	3	2.41	0.880
URBANIZATION	39	1	3	1.87	0.864
TECHNOLOGICAL SPECIALIZATION	39	1	3	2.46	0.682
LAND TRANSPORT	39	1	3	1.74	0.751
MONEY	39	1	3	1.28	0.647
DENSITY OF POPULATION	39	1	3	1.74	0.677
POLITICAL INTEGRATION	39	1	3	2.03	0.707
SOCIAL STRATIFICATION	39	1	3	2.05	0.826
CULTURAL COMPLEXITY	39	10	30	19.36	5.705
FACTOR1	39	6	18	10.77	3.422
FACTOR2	39	4	12	8.59	2.741

Table 7.C.12 -- ACE Old World Cases 2000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	29	1	3	1.28	0.702
FIXITY OF RESIDENCE	29	1	3	2.62	0.677
AGRICULTURE	29	1	3	2.41	0.867
URBANIZATION	29	1	3	2.03	0.906
TECHNOLOGICAL SPECIALIZATION	29	2	3	2.66	0.484
LAND TRANSPORT	29	1	3	1.72	0.841
MONEY	29	1	3	1.59	0.733
DENSITY OF POPULATION	29	1	3	1.97	0.778
POLITICAL INTEGRATION	29	1	3	2.17	0.711
SOCIAL STRATIFICATION	29	1	3	2.28	0.882
CULTURAL COMPLEXITY	29	12	30	20.72	5.331
FACTOR1	29	7	18	11.69	3.350
FACTOR2	29	4	12	9.03	2.822

Table 7.C.13 -- ACE Old World Cases 1000 Years Ago

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	17	1	1	1.00	0.000
FIXITY OF RESIDENCE	17	2	3	2.88	0.332
AGRICULTURE	17	1	3	2.53	0.800
URBANIZATION	17	1	3	1.88	0.697
TECHNOLOGICAL SPECIALIZATION	17	2	3	2.24	0.437
LAND TRANSPORT	17	1	1	1.00	0.000
MONEY	17	1	2	1.65	0.493
DENSITY OF POPULATION	17	1	3	2.41	0.795
POLITICAL INTEGRATION	17	1	3	1.88	0.485
SOCIAL STRATIFICATION	17	1	3	2.18	0.951
CULTURAL COMPLEXITY	17	12	23	19.65	3.639
FACTOR1	17	7	12	9.94	1.519
FACTOR2	17	5	11	9.71	2.201

D. Standard Cross-Cultural Sample Cases

Table 7.D.1 -- SCCS Cases

	N	Minimum	Maximum	Mean	Std. Deviation
WRITING AND RECORDS	186	1	3	1.84	0.775
FIXITY OF RESIDENCE	186	1	3	2.48	0.744
AGRICULTURE	186	1	3	2.44	0.812
URBANIZATION	186	1	3	1.99	0.771
TECHNOLOGICAL SPECIALIZATION	186	1	3	2.27	0.787
LAND TRANSPORT	186	1	3	1.54	0.698
MONEY	186	1	3	2.10	0.959
DENSITY OF POPULATION	186	1	3	2.09	0.843
POLITICAL INTEGRATION	186	1	3	2.10	0.455
SOCIAL STRATIFICATION	186	1	3	1.81	0.691
CULTURAL COMPLEXITY	186	10.00	30.00	20.65	5.042
FACTOR1	186	6.00	18.00	11.65	3.140
FACTOR2	186	4.00	12.00	9.00	2.591

8. CORRELATIONS

A. Cultural Complexity Scale Variables

Table 8.A.1 Pearson's Correlations for the ACE Data Set

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	R	1	.236	.276	.460	.402	.623	.722	.444	.469	.439	.580
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Fixity of Residence	R	.236	1	.827	.688	.713	.308	.315	.720	.737	.663	.805
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Agriculture	R	.276	.827	1	.744	.711	.389	.290	.770	.810	.756	.854
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Urbanization	R	.460	.688	.744	1	.752	.513	.467	.763	.833	.785	.883
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Technological Specialization	R	.402	.713	.711	.752	1	.603	.397	.670	.834	.791	.868
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Land Transport	R	.623	.308	.389	.513	.603	1	.616	.497	.557	.576	.674
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Money	R	.722	.315	.290	.467	.397	.616	1	.643	.474	.485	.622
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Density of Population	R	.444	.720	.770	.763	.670	.497	.643	1	.777	.766	.880
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Political Integration	R	.469	.737	.810	.833	.834	.557	.474	.777	1	.899	.933
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Social Stratification	R	.439	.663	.756	.785	.791	.576	.485	.766	.899	1	.902
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Cultural Complexity	R	.580	.805	.854	.883	.868	.674	.622	.880	.933	.902	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	289	289	289	289	289	289	289	289	289	289	289

Table 8.A.2 Spearman's Correlations for the ACE Data Set

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	P	1	.249	.282	.430	.398	.487	.579	.393	.440	.417	.468
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Fixity of Residence	P	.249	1	.844	.740	.721	.346	.348	.785	.776	.712	.868
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Agriculture	P	.282	.844	1	.776	.717	.420	.294	.817	.835	.786	.873
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Urbanization	P	.430	.740	.776	1	.748	.484	.433	.813	.822	.781	.884
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Technological Specialization	P	.398	.721	.717	.748	1	.603	.365	.698	.836	.790	.892
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Land Transport	P	.487	.346	.420	.484	.603	1	.401	.461	.529	.550	.607
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Money	P	.579	.348	.294	.433	.365	.401	1	.584	.441	.461	.508
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Density of Population	P	.393	.785	.817	.813	.698	.461	.584	1	.813	.784	.876
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Political Integration	P	.440	.776	.835	.822	.836	.529	.441	.813	1	.896	.927
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Social Stratification	P	.417	.712	.786	.781	.790	.550	.461	.784	.896	1	.900
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	289	289	289	289	289	289	289	289	289	289	289
Cultural Complexity	P	.468	.868	.873	.884	.892	.607	.508	.876	.927	.900	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	289	289	289	289	289	289	289	289	289	289	289

Table 8.A.3 Pearson's Correlations for the ACE Data Set, Last 40,000 Years Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	R	1	.234	.275	.459	.401	.622	.722	.443	.469	.438	.581
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Fixity of Residence	R	.234	1	.824	.684	.706	.301	.312	.716	.732	.657	.801
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Agriculture	R	.275	.824	1	.741	.706	.384	.286	.767	.807	.752	.851
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Urbanization	R	.459	.684	.741	1	.748	.510	.465	.760	.831	.783	.882
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Technological Specialization	R	.401	.706	.706	.748	1	.601	.395	.665	.831	.788	.865
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Land Transport	R	.622	.301	.384	.510	.601	1	.615	.494	.554	.573	.672
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Money	R	.722	.312	.286	.465	.395	.615	1	.643	.473	.484	.622
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Density of Population	R	.443	.716	.767	.760	.665	.494	.643	1	.774	.764	.878
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Political Integration	R	.469	.732	.807	.831	.831	.554	.473	.774	1	.897	.932
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Social Stratification	R	.438	.657	.752	.783	.788	.573	.484	.764	.897	1	.901
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Cultural Complexity	R	.581	.801	.851	.882	.865	.672	.622	.878	.932	.901	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	285	285	285	285	285	285	285	285	285	285	285

Table 8.A.4 Spearman's Correlations for the ACE Data Set, Last 40,000 Years Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	P	1	.247	.280	.431	.399	.487	.579	.393	.442	.417	.471
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Fixity of Residence	P	.247	1	.842	.737	.712	.341	.345	.782	.771	.707	.863
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Agriculture	P	.280	.842	1	.773	.710	.415	.290	.814	.831	.782	.871
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Urbanization	P	.431	.737	.773	1	.745	.482	.431	.809	.821	.779	.884
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Technological Specialization	P	.399	.712	.710	.745	1	.602	.363	.692	.833	.787	.889
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Land Transport	P	.487	.341	.415	.482	.602	1	.401	.457	.527	.548	.606
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Money	P	.579	.345	.290	.431	.363	.401	1	.585	.440	.461	.509
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Density of Population	P	.393	.782	.814	.809	.692	.457	.585	1	.810	.781	.875
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Political Integration	P	.442	.771	.831	.821	.833	.527	.440	.810	1	.894	.927
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Social Stratification	P	.417	.707	.782	.779	.787	.548	.461	.781	.894	1	.901
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	285	285	285	285	285	285	285	285	285	285	285
Cultural Complexity	P	.471	.863	.871	.884	.889	.606	.509	.875	.927	.901	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	285	285	285	285	285	285	285	285	285	285	285

Table 8.A.5 Pearson's Correlations for the ACE Data Set, Last 12,000 Years Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	R	1	.229	.270	.457	.400	.621	.721	.441	.468	.436	.584
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Fixity of Residence	R	.229	1	.815	.675	.687	.285	.305	.707	.720	.644	.791
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Agriculture	R	.270	.815	1	.733	.691	.373	.279	.759	.799	.743	.844
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Urbanization	R	.457	.675	.733	1	.741	.503	.461	.754	.826	.777	.879
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Technological Specialization	R	.400	.687	.691	.741	1	.596	.390	.653	.824	.781	.858
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Land Transport	R	.621	.285	.373	.503	.596	1	.613	.486	.547	.567	.669
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Money	R	.721	.305	.279	.461	.390	.613	1	.642	.469	.480	.623
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Density of Population	R	.441	.707	.759	.754	.653	.486	.642	1	.766	.756	.874
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Political Integration	R	.468	.720	.799	.826	.824	.547	.469	.766	1	.894	.929
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Social Stratification	R	.436	.644	.743	.777	.781	.567	.480	.756	.894	1	.898
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Cultural Complexity	R	.584	.791	.844	.879	.858	.669	.623	.874	.929	.898	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	276	276	276	276	276	276	276	276	276	276	276

Table 8.A.6 Spearman's Correlations for the ACE Data Set, Last 12,000 Years Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	P	1	.243	.276	.432	.402	.487	.579	.393	.445	.418	.477
	p	.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Fixity of Residence	P	.243	1	.835	.729	.689	.326	.340	.774	.757	.694	.850
	p	.000	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Agriculture	P	.276	.835	1	.765	.693	.404	.282	.805	.820	.771	.865
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Urbanization	P	.432	.729	.765	1	.738	.476	.426	.801	.817	.773	.886
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Technological Specialization	P	.402	.689	.693	.738	1	.600	.357	.677	.825	.780	.881
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Land Transport	P	.487	.326	.404	.476	.600	1	.399	.449	.521	.542	.604
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Money	P	.579	.340	.282	.426	.357	.399	1	.588	.437	.459	.511
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Density of Population	P	.393	.774	.805	.801	.677	.449	.588	1	.800	.772	.873
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Political Integration	P	.445	.757	.820	.817	.825	.521	.437	.800	1	.891	.925
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Social Stratification	P	.418	.694	.771	.773	.780	.542	.459	.772	.891	1	.901
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	276	276	276	276	276	276	276	276	276	276	276
Cultural Complexity	P	.477	.850	.865	.886	.881	.604	.511	.873	.925	.901	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	276	276	276	276	276	276	276	276	276	276	276

Table 8.A.7 Pearson's Correlations for the ACE Data Set, Last 12,000 Years, Old World Cases Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	R	1	.261	.297	.571	.434	.709	.827	.480	.572	.486	.672
	p	.	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Fixity of Residence	R	.261	1	.859	.623	.612	.280	.363	.706	.678	.580	.748
	p	.001	.	.000	.000	.000	.001	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Agriculture	R	.297	.859	1	.713	.636	.367	.393	.766	.794	.711	.821
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Urbanization	R	.571	.623	.713	1	.723	.590	.620	.755	.843	.767	.889
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Technological Specialization	R	.434	.612	.636	.723	1	.675	.453	.587	.771	.724	.817
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Land Transport	R	.709	.280	.367	.590	.675	1	.657	.450	.667	.626	.728
	p	.000	.001	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Money	R	.827	.363	.393	.620	.453	.657	1	.713	.640	.596	.753
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Density of Population	R	.480	.706	.766	.755	.587	.450	.713	1	.808	.756	.867
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Political Integration	R	.572	.678	.794	.843	.771	.667	.640	.808	1	.888	.945
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Social Stratification	R	.486	.580	.711	.767	.724	.626	.596	.756	.888	1	.882
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Cultural Complexity	R	.672	.748	.821	.889	.817	.728	.753	.867	.945	.882	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	148	148	148	148	148	148	148	148	148	148	148

Table 8.A.8 Spearman's Correlations for the ACE Data Set, Last 12,000 Years, Old World Cases Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	P	1	.276	.305	.540	.451	.616	.715	.456	.556	.482	.579
	p	.	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Fixity of Residence	P	.276	1	.871	.678	.586	.316	.404	.758	.710	.611	.802
	p	.001	.	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Agriculture	P	.305	.871	1	.755	.620	.394	.410	.794	.813	.730	.847
	p	.000	.000	.	.000	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Urbanization	P	.540	.678	.755	1	.723	.552	.582	.782	.833	.766	.900
	p	.000	.000	.000	.	.000	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Technological Specialization	P	.451	.586	.620	.723	1	.694	.430	.592	.771	.726	.834
	p	.000	.000	.000	.000	.	.000	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Land Transport	P	.616	.316	.394	.552	.694	1	.494	.425	.640	.604	.670
	p	.000	.000	.000	.000	.000	.	.000	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Money	P	.715	.404	.410	.582	.430	.494	1	.712	.608	.592	.679
	p	.000	.000	.000	.000	.000	.000	.	.000	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Density of Population	P	.456	.758	.794	.782	.592	.425	.712	1	.829	.761	.876
	p	.000	.000	.000	.000	.000	.000	.000	.	.000	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Political Integration	P	.556	.710	.813	.833	.771	.640	.608	.829	1	.891	.928
	p	.000	.000	.000	.000	.000	.000	.000	.000	.	.000	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Social Stratification	P	.482	.611	.730	.766	.726	.604	.592	.761	.891	1	.891
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.	.000
	N	148	148	148	148	148	148	148	148	148	148	148
Cultural Complexity	P	.579	.802	.847	.900	.834	.670	.679	.876	.928	.891	1
	p	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.
	N	148	148	148	148	148	148	148	148	148	148	148

Table 8.A.9 Pearson's Correlations for the ACE Data Set, Last 12,000 Years, New World Cases Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	R	1	.152	.187	.275	.289	.019	-.037	.191	.290	.306	.313
	p	.	.087	.035	.002	.001	.834	.681	.030	.001	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Fixity of Residence	R	.152	1	.764	.738	.769	.305	.184	.756	.759	.711	.863
	p	.087	.	.000	.000	.000	.000	.038	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Agriculture	R	.187	.764	1	.771	.736	.375	-.089	.778	.801	.769	.882
	p	.035	.000	.	.000	.000	.000	.316	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Urbanization	R	.275	.738	.771	1	.791	.522	.183	.853	.810	.809	.917
	p	.002	.000	.000	.	.000	.000	.038	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Technological Specialization	R	.289	.769	.736	.791	1	.407	.139	.743	.894	.839	.910
	p	.001	.000	.000	.000	.	.000	.116	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Land Transport	R	.019	.305	.375	.522	.407	1	-.074	.385	.415	.452	.487
	p	.834	.000	.000	.000	.000	.	.407	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Money	R	-.037	.184	-.089	.183	.139	-.074	1	.232	.109	.134	.154
	p	.681	.038	.316	.038	.116	.407	.	.009	.222	.131	.083
	N	128	128	128	128	128	128	128	128	128	128	128
Density of Population	R	.191	.756	.778	.853	.743	.385	.232	1	.757	.758	.880
	p	.030	.000	.000	.000	.000	.000	.009	.	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Political Integration	R	.290	.759	.801	.810	.894	.415	.109	.757	1	.907	.936
	p	.001	.000	.000	.000	.000	.000	.222	.000	.	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Social Stratification	R	.306	.711	.769	.809	.839	.452	.134	.758	.907	1	.919
	p	.000	.000	.000	.000	.000	.000	.131	.000	.000	.	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Cultural Complexity	R	.313	.863	.882	.917	.910	.487	.154	.880	.936	.919	1
	p	.000	.000	.000	.000	.000	.000	.083	.000	.000	.000	.
	N	128	128	128	128	128	128	128	128	128	128	128

Table 8.A.10 Spearman's Correlations for the ACE Data Set, Last 12,000 Years, New World Cases Only

		Writing and Records	Fixity of Residence	Agriculture	Urbanization	Technological Specialization	Land Transport	Money	Density of Population	Political Integration	Social Stratification	Cultural Complexity
Writing and Records	P	1	.163	.192	.262	.276	.078	-.040	.197	.273	.281	.304
	p	.	.066	.030	.003	.002	.384	.655	.026	.002	.001	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Fixity of Residence	P	.163	1	.784	.791	.794	.318	.201	.781	.799	.772	.902
	p	.066	.	.000	.000	.000	.000	.023	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Agriculture	P	.192	.784	1	.791	.749	.375	-.074	.776	.819	.794	.863
	p	.030	.000	.	.000	.000	.000	.409	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Urbanization	P	.262	.791	.791	1	.792	.488	.185	.876	.807	.806	.903
	p	.003	.000	.000	.	.000	.000	.036	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Technological Specialization	P	.276	.794	.749	.792	1	.391	.124	.749	.889	.812	.915
	p	.002	.000	.000	.000	.	.000	.164	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Land Transport	P	.078	.318	.375	.488	.391	1	-.078	.385	.399	.435	.477
	p	.384	.000	.000	.000	.000	.	.383	.000	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Money	P	-.040	.201	-.074	.185	.124	-.078	1	.244	.140	.179	.147
	p	.655	.023	.409	.036	.164	.383	.	.006	.116	.044	.097
	N	128	128	128	128	128	128	128	128	128	128	128
Density of Population	P	.197	.781	.776	.876	.749	.385	.244	1	.766	.778	.855
	p	.026	.000	.000	.000	.000	.000	.006	.	.000	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Political Integration	P	.273	.799	.819	.807	.889	.399	.140	.766	1	.880	.922
	p	.002	.000	.000	.000	.000	.000	.116	.000	.	.000	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Social Stratification	P	.281	.772	.794	.806	.812	.435	.179	.778	.880	1	.896
	p	.001	.000	.000	.000	.000	.000	.044	.000	.000	.	.000
	N	128	128	128	128	128	128	128	128	128	128	128
Cultural Complexity	P	.304	.902	.863	.903	.915	.477	.147	.855	.922	.896	1
	p	.000	.000	.000	.000	.000	.000	.097	.000	.000	.000	.
	N	128	128	128	128	128	128	128	128	128	128	128

B. Pinpointing Variables

Table 8.B.1 Pearson's Correlations for the ACE Data Set, Last 40,000 Years Only

		East Grid Coordinate	North Grid Coordinate	Temporal Start Date	Temporal End Date	Temporal Midpoint
Writing and Records	R	0.096	0.039	-0.074	-0.037	-0.069
	p	0.106	0.515	0.212	0.530	0.247
	N	285	285	285	285	285
Fixity of Residence	R	0.114	-0.109	-0.385	-0.422	-0.400
	p	0.054	0.067	0.000	0.000	0.000
	N	285	285	285	285	285
Agriculture	R	0.135	-0.256	-0.304	-0.314	-0.312
	p	0.022	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Urbanization	R	0.002	-0.196	-0.248	-0.279	-0.259
	p	0.973	0.001	0.000	0.000	0.000
	N	285	285	285	285	285
Technological Specialization	R	0.138	-0.069	-0.329	-0.380	-0.346
	p	0.020	0.248	0.000	0.000	0.000
	N	285	285	285	285	285
Land Transport	R	0.220	0.034	-0.135	-0.074	-0.126
	p	0.000	0.571	0.023	0.213	0.033
	N	285	285	285	285	285
Money	R	0.262	-0.028	-0.101	-0.094	-0.102
	p	0.000	0.632	0.089	0.114	0.087
	N	285	285	285	285	285
Density of Population	R	0.308	-0.242	-0.246	-0.254	-0.253
	p	0.000	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Political Integration	R	0.043	-0.163	-0.294	-0.323	-0.306
	p	0.471	0.006	0.000	0.000	0.000
	N	285	285	285	285	285
Social Stratification	R	0.147	-0.211	-0.266	-0.288	-0.275
	p	0.013	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Cultural Complexity	R	0.173	-0.165	-0.310	-0.325	-0.320
	p	0.003	0.005	0.000	0.000	0.000
	N	285	285	285	285	285

Table 8.B.2 Spearman's Correlations for the ACE Data Set, Last 40,000 Years Only

		East Grid Coordinate	North Grid Coordinate	Temporal Start Date	Temporal End Date	Temporal Midpoint
Writing and Records	P	0.118	0.005	-0.111	0.041	-0.059
	p	0.046	0.936	0.062	0.492	0.323
	N	285	285	285	285	285
Fixity of Residence	P	0.122	-0.127	-0.597	-0.382	-0.541
	p	0.039	0.032	0.000	0.000	0.000
	N	285	285	285	285	285
Agriculture	P	0.144	-0.278	-0.552	-0.273	-0.471
	p	0.015	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Urbanization	P	0.028	-0.219	-0.566	-0.327	-0.503
	p	0.634	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Technological Specialization	P	0.155	-0.077	-0.623	-0.394	-0.562
	p	0.009	0.194	0.000	0.000	0.000
	N	285	285	285	285	285
Land Transport	P	0.259	0.035	-0.136	0.106	-0.055
	p	0.000	0.559	0.021	0.073	0.357
	N	285	285	285	285	285
Money	P	0.273	-0.074	-0.196	-0.152	-0.179
	p	0.000	0.211	0.001	0.010	0.002
	N	285	285	285	285	285
Density of Population	P	0.250	-0.251	-0.468	-0.259	-0.407
	p	0.000	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Political Integration	P	0.073	-0.187	-0.622	-0.345	-0.543
	p	0.220	0.002	0.000	0.000	0.000
	N	285	285	285	285	285
Social Stratification	P	0.133	-0.221	-0.575	-0.291	-0.493
	p	0.025	0.000	0.000	0.000	0.000
	N	285	285	285	285	285
Cultural Complexity	P	0.167	-0.181	-0.633	-0.360	-0.557
	p	0.005	0.002	0.000	0.000	0.000
	N	285	285	285	285	285

Table 8.B.3 Pearson's Correlations for the ACE Data Set, Last 12,000 Years Only

		East Grid Coordinate	North Grid Coordinate	Temporal Start Date	Temporal End Date	Temporal Midpoint
Writing and Records	R	0.103	0.042	-0.095	0.015	-0.077
	p	0.089	0.488	0.115	0.807	0.203
	N	276	276	276	276	276
Fixity of Residence	R	0.151	-0.100	-0.499	-0.416	-0.517
	p	0.012	0.098	0.000	0.000	0.000
	N	276	276	276	276	276
Agriculture	R	0.162	-0.254	-0.410	-0.303	-0.414
	p	0.007	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Urbanization	R	0.019	-0.192	-0.351	-0.315	-0.369
	p	0.753	0.001	0.000	0.000	0.000
	N	276	276	276	276	276
Technological Specialization	R	0.167	-0.060	-0.452	-0.424	-0.478
	p	0.006	0.324	0.000	0.000	0.000
	N	276	276	276	276	276
Land Transport	R	0.234	0.040	-0.162	0.025	-0.131
	p	0.000	0.513	0.007	0.677	0.029
	N	276	276	276	276	276
Money	R	0.272	-0.025	-0.132	-0.075	-0.129
	p	0.000	0.676	0.028	0.215	0.033
	N	276	276	276	276	276
Density of Population	R	0.333	-0.240	-0.329	-0.243	-0.334
	p	0.000	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Political Integration	R	0.065	-0.158	-0.412	-0.348	-0.427
	p	0.283	0.008	0.000	0.000	0.000
	N	276	276	276	276	276
Social Stratification	R	0.169	-0.208	-0.374	-0.310	-0.386
	p	0.005	0.001	0.000	0.000	0.000
	N	276	276	276	276	276
Cultural Complexity	R	0.201	-0.160	-0.421	-0.321	-0.428
	p	0.001	0.008	0.000	0.000	0.000
	N	276	276	276	276	276

Table 8.B.4 Spearman's Correlations for the ACE Data Set, Last 12,000 Years Only

		East Grid Coordinate	North Grid Coordinate	Temporal Start Date	Temporal End Date	Temporal Midpoint
Writing and Records	P	0.125	0.011	-0.099	0.060	-0.045
	p	0.038	0.862	0.099	0.321	0.460
	N	276	276	276	276	276
Fixity of Residence	P	0.158	-0.116	-0.561	-0.326	-0.499
	p	0.008	0.054	0.000	0.000	0.000
	N	276	276	276	276	276
Agriculture	P	0.173	-0.271	-0.523	-0.225	-0.437
	p	0.004	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Urbanization	P	0.048	-0.212	-0.547	-0.292	-0.479
	p	0.429	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Technological Specialization	P	0.186	-0.063	-0.594	-0.346	-0.528
	p	0.002	0.296	0.000	0.000	0.000
	N	276	276	276	276	276
Land Transport	P	0.279	0.045	-0.109	0.147	-0.023
	p	0.000	0.458	0.071	0.014	0.708
	N	276	276	276	276	276
Money	P	0.282	-0.069	-0.182	-0.136	-0.164
	p	0.000	0.253	0.002	0.024	0.006
	N	276	276	276	276	276
Density of Population	P	0.279	-0.245	-0.440	-0.216	-0.374
	p	0.000	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Political Integration	P	0.099	-0.177	-0.599	-0.301	-0.514
	p	0.102	0.003	0.000	0.000	0.000
	N	276	276	276	276	276
Social Stratification	P	0.159	-0.214	-0.554	-0.252	-0.467
	p	0.008	0.000	0.000	0.000	0.000
	N	276	276	276	276	276
Cultural Complexity	P	0.203	-0.173	-0.601	-0.305	-0.518
	p	0.001	0.004	0.000	0.000	0.000
	N	276	276	276	276	276

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World Cultures CD Data Disk

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ACE.SAV

Issue in Word 2000 format
Atlas of Cultural Evolution data base

\MAP

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William Divale

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