**Appendix**: a tabulated summary of all evidence presented in this book related to dates of historical events.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Climate**  **proxies**  **(O)** | **Human**  **populations**  **(A)** | **Characteristic states**  **(B)** | **Power center shifts**  **(C)** | **Active**  **class**  **(D)** | **Emerging class**  **(E)** | **Neutral**  **(-)** | **Contradiction**  **(N)** |
| 1st millennial spring  12785 – 12565BC  Hallstatt winter  O  (+1)  100 % | **increasing**  (12700-12600BC) Major increase in global temperature and rise in sea level during Bolling interstadial event.{68} {97}{879} | **revolution** | **maritime** | **northward** | **traders** | **engineers** | **neutral** | **contradictions** |
| 1st millennial summer  12565 – 12340BC  Hallstatt winter  OOOOA  (+5)  100% | **warm**  (12500-12200BC) Warmest part of Bolling interstadial.{462}  (12500-12400BC) Start of meltwater pulse 1A.{332} {1585}{1974}  (12500BC) Warm period in Patagonia at end of Last Glacial Maximum. {1200}  (12500BC) Ice melted and boreal forests spread northward in Europe. {1635} | **growth**  (12500BC) Wild cereals were gathered by the Natufian culture in the Levant. {1322} | **elite** | **golden age** | **builders** | **invaders** | **neutral** | **contradictions** |
| 1st millennial autumn  12340 – 12115BC  Hallstatt spring  E-  (0)  50% | **decreasing** | **scarcity** | **continental** | **migration** | **warriors** | **philosophers**  (12400-12000BC) Rich grave site near cave in Israel containing tortoise shells probably made for a prominent witch doctor. {721}{1859} | **neutral**  (12326BC) first occupation of Ain Mallaha, Israel.{1917} | **contradictions** |
| 1st millennial winter  12115 – 11890BC  Hallstatt spring  OOO-  (+3)  88% | **cool**  (12000-11800BC) Re-advance of ice sheets in New England.{1868}  (12000BC) Cooling pulse in Patagonia. {1200}  (12050-11900BC) Center of Older Dryas cool period. Glaciers re-advanced and tundra returned to most of Europe.{44} | **decline** | **regionalized** | **southward** | **priests** | **explorers** | **neutral**  (12000BC) Federmesser reindeer hunting culture emerged in Europe.{769} {1469} | **contradictions** |
| 2nd millennial spring  11890 – 11665BC  Hallstatt summer  OO  (+2)  100% | **increasing**  (11900BC) Allerod warm and wet phase began. Mixed forests in Europe moved northward.{68}  (11800BC) Maximum rate of sea level rise.{692} | **revolution** | **maritime** | **northward** | **traders** | **engineers** | **neutral** | **contradictions** |
| 2nd millennial summer  11665 – 11440BC  Hallstatt summer  OOOA  (+4)  100% | **warm**  (11500BC) Northward retreat of Wisconsin ice sheet. {1856}  (11600BC) Mesa archaeological site in Alaska occupied.{505}  (11500BC) Southern Sweden became ice-free.{1066} | **growth**  (11500BC) Agricultural village of Tell Abu Hureyra was established in Syria.{1290} | **elite** | **golden age** | **builders** | **invaders** | **neutral** | **contradictions** |
| 2nd millennial autumn  11440 – 11215BC  Hallstatt summer  OOC  (+3)  100% | **decreasing**  (11400-11350BC) Cool period began in North Atlantic region.{496} {858}  (11400BC) Cooling phase occurred in Patagonia.{741} | **scarcity** | **continental** | **migration**  (11390-11200BC) Clovis big game hunting tradition began and spread rapidly in North America.{1639} {1970} | **warriors** | **philosophers** | **neutral** | **contradictions** |
| 2nd millennial winter  11215 – 10990BC  Hallstatt autumn  OCN  (+1)  67% | **cool**  (11050BC) Rye domesticated at Tell Abu Hureyra. Rye is a cold-resistant crop.{817} {1290} | **decline** | **regionalized** | **southward**  (11000BC) Humans had migrated to Venezuela, Peru and Argentina. {1212} | **priests** | **explorers** | **neutral** | **contradictions**  (11200-11000BC) A water dam broke and glacial lake Agassiz drained into the Arctic Ocean.{2030} |
| 3rd millennial spring  10990 – 10765BC  Hallstatt autumn  C-NN  (-1)  38% | **increasing** | **revolution** | **maritime** | **northward**  (10871-10590BC) Southern Scandinavia settled by the Bronme culture.{593} | **traders** | **engineers** | **neutral**  (10898BC)  Settlement began at Tell Qaramel in Syria.{1218} | **contradictions**  (11000-10900BC) Sharp drop in temperature led to end of Bolling/Allerod warm period and beginning of Younger Dryas cold period.{32}{33} {68}{858}{1974}  (10800BC) Dry phase in Patagonia.{1200} |
| 3rd millennial summer  10765 – 10540BC  Hallstatt autumn  OAN  (+1)  67% | **warm**  (10600-10500BC) Southeastern Sweden was deglaciated. {151} | **growth**  (10600BC) Initial settlement of Nanzhuangtou in China. {1040} | **elite** | **golden age** | **builders** | **invaders** | **neutral** | **contradictions** (10800-10500BC) Onset of Younger Dryas cold period in China. {102} |
| 3rd millennial autumn  10545 – 10315BC  Hallstatt winter  --  (0)  50% | **decreasing** | **scarcity** | **continental** | **migration** | **warriors** | **philosophers** | **neutral**  (10459BC) Gesher site in Israel shows early evidence of agriculture. {2140}  (10500BC) Occupation of cave sites began on the south shore of the Caspian Sea.{1212} | **contradictions** |
| 3rd millennial winter  10315 – 10090BC  Hallstatt winter  OAD-  (+2)  88% | **cool**  (10250-10100BC) Coldest part of the Younger Dryas. {151} | **decline**  (10200BC) Village of Tell Abu Hureyra abandoned.{1278} | **regionalized** | **southward** | **priests**  (10200BC) Khiamian culture in the Levant introduced a mother goddess and bull worship.{278} | **explorers** | **neutral**  (10200BC) Mureybet settlement established in Syria. {874} | **contradictions** |