**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 spring12785 – 12565BCHallstatt winterO(+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 summer12565 – 12340BCHallstatt winterOOOOA(+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 autumn12340 – 12115BCHallstatt springE-(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 winter12115 – 11890BCHallstatt springOOO-(+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 spring11890 – 11665BCHallstatt summerOO(+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 summer11665 – 11440BCHallstatt summerOOOA(+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 autumn11440 – 11215BCHallstatt summerOOC(+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 winter11215 – 10990BCHallstatt autumnOCN(+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 spring10990 – 10765BCHallstatt autumnC-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 summer10765 – 10540BCHallstatt autumnOAN(+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 autumn10545 – 10315BCHallstatt 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 winter10315 – 10090BCHallstatt winterOAD-(+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** |