

Index

- 8.2 ka event, 9, 32
- Aceramic Neolithic, 89
- aerosols, 206, 231, 251
- agricultural productivity, 227
- agricultural strategies, 18
- agricultural yield, 227
- All India Rainfall Index, 43, 203
- AMOC, 33,
- Antarctic ice shelves, 268
- Antarctic melting, 269
- Anthropocene, 16
- anthropogenic activity, 177
- anthropogenic emissions, 261
- apricot, 127
- Arabian Peninsula, 38
- Artemisia, 86
- Atlantic Meridional Overturning Circulation, 32
- Australian Monsoon, v, 46
- Australian–Indonesian summer monsoon, 47
- avulsion, 23
- Baiyangcun, 135
- Baluchistan, 100
- banana, 138
- Bangkok, 137, 271
- Bangladesh, 38, 271, 275, 277
- Baodun Culture, 139
- Baodun period, 134
- barley, 77, 100, 101, 173
- Bay of Bengal, 6, 38, 259
- Beas River, 89
- Bengal Famine, 107
- bet-hedging, 278
- black carbon, 205, 252
- Bohai Sea, 29
- Bølling-Allerød, 13, 47, 120, 149, 156
- boreal forest, 156
- broomcorn, 148
- bunds, 134
- burning, 129
- C⁴ plants, 52
- caltrop, 127
- canals, 178
- carbon dioxide, 248
- carp fish, 113
- cattle, 175
- Cave records, 56
- Central Asia, 42
- Champa rice, 26, 144
- channel migration, 104
- Chao Phraya, 137
- chemical weathering, 55
- Chenab River, 89
- Chengdu Plain, 134, 138, 139, 143, 187
- Chengtoushan, 129
- Chinese Loess Plateau, 150, 178, 221
- Cholistan, 94, 104
- citrus fruits, 138
- CLAMP, 65
- clay mineral, 56
- climate change, 278
- climate modeling, 193, 207, 255
- General Circulation Models, 233
- climate refugees, 275
- clouds, 206, 251
- brown, 252
- clumped isotopes, 65
- coastal defenses, 275
- coastal management, 274
- collapse, 2
- Communism, 187
- cotton, 102
- crop yields, 227
- Cultural Revolution, 189, 219
- cyclones, 255
- Arabian Sea, 261
- Dadiwan, 161, 166
- dam, 211
- Dasuopu, 106
- ice core, 194
- Defore Cave, 105
- deforestation, 179, 194, 230

336

demographic packing, 122, 159
 Dholavira, 99
 diatoms, 60
 discharge
 fluvial, 11, 20, 265
 melt water, 32
 river, 194
 diversification, 26, 28
 domestication, 15
 Dongge Cave, 57, 69, 141, 143, 181
 Dongting lake, 145
 double cropping, 145
 drought, 188, 224, 253
 drought-tolerant crops, 231
 drying, 194
 20th Century, 193
 Dujiangyan, 27, 139, 140

 Early Neoglacial Anomaly, 80
 East China Sea, 150
 East India Company, 107, 193
 El Niño-Southern Oscillation, 5, 42
 emissions
 CO₂, 236
 ENSO, 234
 evaporation, 239
 evapotranspiration, 100

 famine, 229
 feedbacks
 vegetation, 241
 Fennoscandian Ice Sheet, 15
 fertilizers, 227
 nitrogenous, 190
 fires, 177
 flood management, 139
 flooding, 30, 139, 177, 188, 210, 213, 218, 222, 241
 coastal, 271
 storm, 271
 foragers, 136
 forest-steppe, 166
 fossil fuels, 234, 251
 foxtail, 135
 foxtail millet, 148
 Fujian, 136,

 gabarbands, 93
 Ganges-Brahmaputra River, 9
 general circulation models, 48
 Ghaggar-Hakkra, 88
 Ghaggar-Hakra, 98
 Ghengis Khan, 184
 GISP ice core, 69
 glacial melting, 265, 277
 Glaciation
 Northern Hemispheric, 234
 glacier
 retreat, 266

Index

global monsoon, 248
 global warming, 32
 Globigerina bulloides, 52
 Globigerina falconensis, 80
 Godavari River, 80
 grain production, 224
 gravitational attraction
 ice sheets, 268
 Great Leap Forward, 187, 198, 218,
 Green Revolution, 186, 187, 190, 222,
 229
 greenhouse gases, 194
 growing degree days, 19, 237
 Guangdong, 136
 Guangxi, 136
 Guangzhou, 264
 Guizhou, 134

 hackberry, 161
 Hadley Circulation, 39
 Hagibis
 Super-typhoon, 201
 Haimenkou, 135
 Han Dynasty, 143, 178
 Harappan, 27, 93, 98
 hazelnut, 161
 Heshang Cave, 58, 141, 181
 historical archives, 68
 Ho Chi Minh City, 273
 Holocene Megathermal, 122
 Hong Kong, 264
 Hoti Cave, 78, 122, 169
 Houli sites, 130
 Huguang Maar, 181
 Hukou System, 188
 hunter-gatherers, 159
 hydroelectricity, 216
 hydrogen isotope, 61
 hydrologic model, 265

 ice core, 107
 ice sheet
 stability, 269
 India Meteorological Department, 48
 India-Asia collision, 39
 Indo-Gangetic Plains, 208, 224, 238
 Indus Basin Project, 216
 Indus Delta, 8
 Indus River, 196
 Indus Valley Civilization, 72
 insolation forcing, 234
 Intensive Agricultural Development Program,
 191
 Intergovernmental Panel on Climate Change,
 233
 Intertropical Convergence Zone, 4, 241
 irrigation, 27, 241
 isotopologues, 65

- jackfruit, 138
- Japan, 150
- Jin Dynasty, 141, 179
- Jinnah Barrage, 211
- Jiuxian Cave, 169
- Jomon
 - Incipient, 159
- Jomon Culture, 169

- Karakoram, 76
- Karsandi, 84
- Kashmir Valley, 217
- Kayue Culture, 175
- Kazakhstan, 268
- Kharif, 77, 101, 223, 243
- Killing degree days, 19
- Kolkata, 271
- Korean Peninsula, 258
- Kosi River, 209
- Kotla Dahar, 84
- Kuahuqiao, 127, 128
- Kuroshio Current, 257, 263
- Kyrgyzstan, 268

- Ladakh, 84
- Lake Didwana, 86
- Lake sediments, 59
- Last Glacial Maximum, 23, 37, 39, 120, 149
- last interglacial period, 268
- Late Harappan, 103
- Late Neoglacial Anomaly, 80
- Leaf wax, 61, 80, 156
- Legumes, 102, 230
- lentil, 77
- Liangzhu, 129
- Little Ice Age, 2, 66
- Longmen Shan, 138
- Lopburi, 137
- Lunkaransar, 82

- Madras Presidency, 109
- maize, 112, 145, 146, 237
- Majiayao Culture, 168
- Mangla dam, 212, 216
- mango, 138
- Marine Isotope Stage 3, 149
- Mature Harappan, 101
- Medieval Warm Period, 2, 184
- Mehrgarh, 89, 92, 93
- Meltwater Pulse 1A, 24, 122, 156, 158
- Mesopotamia, 6
- Microblade technology, 154
- microblades, 156
- microlithic technology, 154
- millet, 77, 103, 185
 - barnyard, 169
 - broomcorn, 135, 160, 164, 170
 - domestication, 161
 - foxtail, 160, 163, 170, 189
- Millet, 245
- Min River, 139
- Ming Dynasty, 146
- Miocene, 40
- Moghul Empire, 193
- Mohenjo Daro, 75, 101
- moisture-advection feedback, 256
- Mongol Empire, 183
- Mongolia, 152
- Mongols, 145
- monsoon breaks, 45, 251
- Mughal Empire, 105
- mung bean, 77, 102

- Nanjiakou, 131,
- Neolithic, 139
- New Delhi
 - pollution, 206
- North Atlantic, 11
- North China Plain, 198, 245
- Northern Atlantic Oscillation, 235
- Northern Song Dynasty, 145

- O. indica*, 115
- O. japonica*, 115, 119, 130, 137
- O. sativa*, 115
- Oceanographic productivity, 53
- Oman, 78
- organic chemistry, 61
- orographic rainfall, 8
- oxbow lake, 99

- Pakistan, 259
- paleosol, 61
- Paleo-temperatures, 64
- Paratethys, 39
- pea, 77
- peach, 127
- peanuts, 145
- Pearl River
 - delta, 136
- Peiligang Culture, 161
- Philippine Sea, 257
- plowing
 - deep, 230
- poldered fields, 27, 135
- poldering, 119
- pollution
 - atmospheric, 231
 - population densities, 5, 9
 - post-Urban Harappan, 102
- potato, 145
- pottery, 158
- precipitation
 - reduced, 278
- precipitation events
 - extreme, 276

338

Precipitation Radar, 50
 Punjab, 87

Qijia Culture, 177
 Qin State, 29
 Qing Dynasty, 198
 Qunf Cave, 54

Rabi, 77, 224
 Rach Nui, 137, 138
 Rajasthan, 82
 Ravi River, 89
 Red River delta, 271
 resilience theory, 3
 rice, 127

- domestication, 124, 137
- farming, 136
- wild rice, 128, 129

 rice farming, 112
 Rice paddies, 31
 rice spikelet, 124, 127
 river channel migration, 209
 Riverine inundation, 93
 Rojdi, 103
 runoff

- fluvial, 265

 salinity, 80
 Sanbao Cave, 169
 Sanxingdui, 139
 Sanxingdui Culture, 139
 Saraswati River, 88, 90, 94
 sea level, 32, 128, 268

- rise, 23, 156, 271

 sea surface temperature, 257
 Shandong, 131
 Shanghai, 220, 264, 274
 Shangshan, 125
 shatian, 135
 Shi'erqiao Culture, 139
 Siberia, 4
 Sichuan, 134, 138
 Sindh province, 211
 snowmelt, 23
 soil

- fertility, 232
- moisture, 243

 Soil tillage, 129
 Song Dynasty, 141
 Songze, 129
 sorghum, 77, 145
 South China Sea, 56, 232

- typhoons, 200

 Southern and Northern Dynasties, 179
 Southern Song Dynasty, 183
 speleothems, 56
 steering flow, 263

Index

storm

- tracks, 259

 storm surges, 271
 storms, 241

- China, 255

 Strange Parallels Drought, 62
 Sukkur Barrage, 211, 213
 Sunda Shelf, 13
 Sutlej River, 89, 97
 sweet potato, 145, 146
 swiddening, 118

Taiga, 7
 Tang Dynasty, 141, 182
 Tarbela Dam, 216
 Tarim Basin, 11
 taro, 138
 temperature, 18

- rising, 227
- continental, 236

 Terraces, 29, 144, 168
 Thailand, 137
 Thar Desert, 88
 Three Gorges Dam, 219
 Tianluoshan, 127
 Tianshan, 266
 Tianyang lake, 120
 Tibetan Plateau, 5, 7, 20, 39, 170, 236
 tillage, 176
 tillering, 115
 tilling, 99
 transpiration, 243
 tree rings, 62
 tropical cyclones, 200
 Tropical Rainfall Measuring Mission, 6, 49
 Tso Kar, 84
 Tso Kar lake, 70
 Turkmenistan, 268
 typhoons, 200, 231, 257

- tropical, 277

 Victorian Great Drought, 62
 Vietnam, 271, 277

Walker Circulation, 255, 257
 walnut, 161
 Warring States period, 30
 water caltrop, 158
 Wei Dynasty, 26, 148
 Wei River, 178
 Westerly Jet, 9, 40, 72, 76, 85, 197, 198, 268
 Western Ghats, 76
 Western Pacific Warm Pool, 15, 257, 263
 wet rice cultivation, 115
 wheat, 77, 173, 237
 wild foods, 121
 wild rices, 124

Index

339

- Worcester Polytechnic Institute-Earth System
Model, 256
- Wular, 217
- Xerophytic shrubland, 150
- Xinglongwa Culture, 164
- Xishanping, 131
- Yamuna River, 95, 96
- Yangon, 271
- Yangshao Culture, 166
- Yangtze River
delta, 23, 128, 145, 274
valley, 137
- Yellow River, 23, 29, 175, 220, 245
- Younger Dryas, 13, 80, 149
- Yunnan, 134
- Yunnan Province, 8
- Yunnan-Guizhou Plateau, 20, 134,
144
- Zhejiang, 137
- Zhou Dynasty, 149
- zircons, 95