INDEX

Page numbers with an ‘f’ indicate a figure

abandonment of sites, 110–114, 131f, 149–150
Aboriginal art. See rock art
Aboriginal ceremonies. See ceremonies
Aboriginal languages. 29–30, 202–205, 209–210, 333–335
Arandic, 30
dialects, 340
groups, 270, 333–335, 335f
Karnewan, 203f, 204
Pama-Nyungan, 202–205, 263
Tangkic, 203f, 204
Aboriginal ontology, 220–221
Aboriginal people, 9, 12, 34–36, 92–94 adapting to food supply, 12
ceremonies, large, 258–259
colonisation of deserts by, 76–78
as ecological agents, 40–41
basic data, 92, 334
impact of LGM on, 154–156
large gatherings of, 101
length of desert occupation, 39–40
physical variation among, 28
late Pleistocene range of, 98–99
perspective on fossil bones, 69
responses to environmental stresses, 149
skeletal remains of, 92–94, 153, 183–184
use of ochres by, 182, 276
use of stone tools by, 136–138
as vector for spread of seeds, 105
Aboriginal societies, 18, 44, 70, 106, 107–108, 207–208, 211. See also hunter-gatherers
conservatism of, 31
demographic trends, 338–339
Aboriginal societies (cont.)
desert cultural systems, 208–211
development of, 22
dynamics of hunter-gatherer societies, 305–308
economy and population changes, 35, 42
foraging risks, 196–197
formation of desert culture, 208–211
fragmentation during LGM, 114–115
gender roles in, 210
gerontocratic privilege, 300
gift exchange, 270
Holocene, 163–164, 174–176
impact of LGM on, 110, 156
influence of increased social activity on
production systems, 42
internal social dynamics, 305–308
intragroup exchanges of goods, 270–271
population growth of, 208–209
role of dogs in, 208
role of mythology in, 216–217
shared graphic systems of, 214
subsections ('skins'), 336
trade and exchange within, 266–270
uniformity of, 21
use of fire by, 324
Western Desert, 333–335
Aboriginal tribal or ethnographic groups
Arrernte, 10, 17–18, 19f, 20, 22, 23, 42
Diyari, 10, 69, 266, 277, 293
Jandrowonta, 284
Jaunuwoorka, 284
Jingili, 270

391
Aboriginal tribal or ethnographic groups (cont.)
  Kalkadoon, 259
  Mudburra, 270
  Puntupi, 10, 109, 136, 154, 270, 324, 334, 335
  Pitjantjatjara, 10, 15, 334
  Thirrari, 69
  Wangleaungu, 10, 69, 182, 277, 293
  Warlpiri, 217, 220, 270, 280
  Warramungu, 20
  Western Desert, 333–335
  Yandruwantha, 10, 277, 286, 293
  Yankuntjatjara, 10, 15, 334
access to country, 123
adhesives, 195, 287
adzes, 29, 31, 164, 185, 186f, 186, 189, 190f, 194–196. See also tula adzes
aeolian landforms, 6, 25, 36
aeolian responses to climate change, 59f
aeolian sediments, 122
aerial mapping, 27
Africa, 1–3, 11, 105, 265, 300
Akerman, K, 22, 274, 275
Allen, H, 34, 71, 72, 74
Allens Cave site, 73f, 88–89, 111f, 151, 152, 175–176, 177f
Amazon basin, 116
American deserts, 31, 105, 163, 265
Anadara middens, 172–175, 246, 250, 310
  See also dreaming
Antic Hunters and Their Modern Representatives, 22
animal translocation, dogs, 206–207
Anna Creek grindstone quarry, 283–284
Antarctic Cold Reversal (ACR), 119
anthropogenic fires, 103–104, 303, 324–326, 328f, 333, 336. See also fire
anthropomorphs, 232t–233t, 241–242, 247, 249, 250f, 251, 255, 259–261
Anvil Creek ochre quarry, 281
Arandic groups, 217
Arandic languages, 10, 30, 334
archaeological research, 1–4, 12–15, 46, 157.
  See also research questions
analysis of faunal bone, 327f
analysis of rock art, 212–216, 221–225, 227, 252
approaches to trade and exchange, 271–274
arid zones and stone artefacts, 322–323
Central Australian sites, 312–321
classical ethnographies, 304–305
fire and patch burning, 323–326
hunter-gatherer social dynamics, 305–308
late Holocene sites, 310–312
archaeological research (cont.)
  misunderstanding of rock art, 221
  political aspects of research, 14–15
  problems with identifying seed-grinding tools, 200–201
  recurring themes in, 43–44
  with bush communities, 15
archaeological sites, 13, 15, 32, 35, 46f, 78–92. See also individual site names,
  e.g., Puritjarra site
difficulties in dating, 225–227
late Holocene, 310–312
late Pleistocene, 124–133
management of, 15
significance of rock art at, 224–225
‘archaic faces’ rock art, 229f, 242, 245f, 252–253
arid rivers region, 5f, 7, 8, 57–58
arid zone, 5f, 5, 14, 60, 73f, 75, 124f, 144–146, 190f. See also deserts
biota, 38–40
boundaries, 76
changes to, 26, 76
defined, 6
ecology of, 43
lakes and saltlakes, 52–53
last glacial maximum, 110, 120
megafauna extinction in, 103–104
southeastern sector, sites, 322–323
woodlands, 8
aridity
  adaptations to by people, 34, 35
  as barrier to settlement, 34
aridity index, 5
Arkaba site, 143
Arnhem Land, 71, 216, 254, 270–271, 295, 300
Arrernte people, 10, 17, 18, 19f, 20, 22, 23, 42
artefacts. See stone tools, wooden artefacts
Arunta: A Study of a Stone Age People, The, 23, 304
Ash, JE, 59
Ashwin, AC, 331
Atentye site, 321
atylepe ceremonies, 23, 258
Australia Twice Traversed, 302
Australian desert culture. See Aboriginal societies; desert cultures
Australian Institute of Aboriginal Studies, 157
axes. See stone axes
backed artefacts, 185–186, 187f
Balcoracana Creek site, 144, 183
baler shell, 98, 274–275. See also shell artefacts
Balme, J, 201
Barton, H, 294
Basedow, H, 23, 24, 212, 213
Beaton, JM, 74
behauioural ecology, human, 328–329
Bender, B, 306
Berndt, RM, 215f, 10, 24, 216, 220, 259, 270, 271
biogeography, 89, 113, 115–117
models, 40
refugia, 7
zones, 38
biota, 3, 8, 40
biotic activity in deserts, 9
Bird, DW, 41, 325, 326, 337
Birdsell, JB, 28, 72, 75, 297f, 334
boat-building, 71
body painting, 218, 337f
Bookartoo. See Pukardu
boomerangs, 186, 194, 298
Bowdler, S, 34, 48
Bowler, JM, 32, 36, 52, 53f, 94, 110
Brachina Gorge site, 121
Brook, BW, 312
Brooks, AS, 1
Brown, HYL, 212
burials, 14, 32, 81, 92–93, 93f, 153, 183, 299f
Burke and Wills (explorers), 20, 288, 292, 330
Burkes Cave site, 323
burning of desert vegetation. See anthropogenic fires; fire
Burrup Peninsula sites, 172, 241, 244, 245f, 246–247, 251, 253
bush foods, 12, 164, 196, 202, 209, 308, 330
Bush Turkey 3 site, 115, 145–146, 179, 246, 321
Byrne, M, 117
Calvert Range sites, 240–242, 246, 251
Cane, S, 156, 176
canoes, 288
Cape Range sites, 86–87
Capell, A, 30
carbon-14 ($^{14}$C) dating. See radiocarbon dating
carbon isotope analysis of teeth, 65
Carnarvon Range, 91, 146
Carpentaria region, 116, 147, 149
Carpenters Gap sites, 98, 102, 160, 201
Carpenters Gap 1, 78, 107, 143, 200
Carpenters Gap 3, 143
caution-ratio dating, 235–236
Central Australia, 5f, 6–7, 14, 121, 133–139, 314f, 334
environmental changes in, 50, 308–310
fluvial history of, 57
glacial refugia in, 116
Central Australia (cont.)
graphic systems of, 258–259
Holocene changes to groundwater, 121, 122, 160
lakes of, 56–57
rock art from, 227–234, 254–258, 255f
sites in 89–91, 133–139, 134f, 181–182, 312–318
Central Australian Expedition (C Sturt), 20, 21f
ceremonies, 17, 210, 218, 258–259, 305–307, 321. See also ingkwere
atypelpe, 23, 258
‘increase’, 216
initiation, 216, 217
kunapipi, 217
rain-making, 274
for regulating knowledge 216, 217
for social integration, 224
chenopods, 7, 65, 76, 104, 143, 150, 200
chronologies, 14, 22, 26, 42, 72, 78–92, 312, 334
of axes, 289f, 291–292
of deserts, 43, 48
dozen fields, 37, 43, 58–59
of rock art, 234–238, 243–245, 261–262
clan estates, 12, 280
‘classical refugia’, 116
Clendon, M, 204
and anthropogenic fires, 103
Pleistocene, 51
and the LGM, 119–120
climate indices, 5
climatic belts, 27f, 26–28
climatic shifts, 4, 52–53, 113
climatic variability, 51f, 74–75
‘climbing men’ motif, 242, 243f, 251
‘clinal model’ of re-occupation, 115
‘coastal colonisation hypothesis’, 34
coastal regions and resources, 6–7, 33, 102, 174, 262
Coddington, BF, 326–329
Colless Creek Cave site, 147–148
colonial research, 18, 42–43
colonisation, 34–36, 70–74, 76–78, 106–107, 177–178, 335
ecological impacts of, 102–105
limiting factors for, 72–74
routes, 77–78
patterns of settlement, 117, 320
translocation of plant and animal species, 104–105
composite tools, 185, 194
Conkey, MW, 224
Index

Kardimarkara (the Rainbow Serpent), 69
and proprietary relationships, 340
and seed-foods, 210–211
significance of red ochre in, 276
totemic geography, 216
tjukurpa, 220
Dromatus novachollandiae (emu) eggshell. 61, 99, 326
at Silver Dollar site, 87
and carbon isotopes, 61, 103
from Lake Menindee site, 82
revealing vegetation change, 103
dromornithids, 50, 66
drylands, 4, 120–122. See also arid zones; deserts
fauna of, 61–67
Duboisia hopwoodii (source of pituri), 292–294
dunefields, 6, 24–26, 37, 59f, 58–60, 68, 73f
aerial mapping of, 27
as biogeographic barriers, 115
problems of archaeological investigation in, 145–146
dust
emissions, 309
fluxes, 121
mantles, 121
transport patterns, 122
dynamics of hunter-gatherer societies, 305–308
early Holocene epoch, 38
defined, 158
language change during, 204–205
rock-art traditions, 228–253
stone assemblages, 184–185
early Pleistocene epoch, 23, 48, 51
ecological adaptations, 8
ecological impacts, 102–105
economic intensification, 332
economies, 99–102, 149, 222, 332–333, 336–338
Holocene changes in, 209
Holocene coastal, 174
political, 300
seed-based, 202, 320–333
Edgeworth David, TW, 19
Eight Mile Creek site, 234
El Niño–Southern Oscillation (ENSO), 158, 162–163, 308–310, 335–336
embedded procurement, 296
Emily Gap site, 220, 221f, 256
emu eggshell. See Dromatus novachollandiae (emu) eggshell
endemic plant species, 7, 37
endscrapers, 186, 192, 193
engraved stone plaques, 217
environmental change, 308–310. See also climate change
environmental stochasticity, 115
ephemeral waters, 11, 56, 122
‘Eremian’ zones, 38
Etadunna formation, 49, 50
ethnographic distribution patterns, goods, 267f, 272
ethnographies, 304–305, 329
Etten, EJB, van, 8
eucalypt woodlands, 103, 175
Europe, glacial-age, 116
European contact and exploration (in interior), 42–43, 109, 292, 294, 302–303
European settlement (of interior), 277
eustatic changes, impact of, 151
Evans, N, 204
evaporation rates, 122–123
evolutionary biodiversity, 18, 50, 117
exchange. See trade and exchange
expedient grindstones. See grindstones
explorers, European, 18, 20–22, 197, 302–303, 322, 329
extinct fauna, 22, 24, 41
extinction of arid-zone megafauna, 65–66, 103–105, 324
eyes, depicted in rock art, 252–253
Eyre, Lake. See Lake Eyre
Fanning, PC, 323
faunal assemblages, 326–329
‘fern’ headdresses in rock art, 259
fertility cults, 216–217
fire, 40–42, 102–103, 302, 303f, 323–326
‘firestick farming’, 40
first contact, Pintupi Nine, 109–110
fish otoliths, 101
fishing, 77, 102, 171
flaked-stone assemblages. See stone artefact (lithic) assemblages
Flinders Ranges, 43, 112, 116, 121, 143
Holocene sites, 182–183
Pukardu mine, 276–278
flint quarrying, 150, 152. See also quarries; Koonalda Cave site
flooding, 8, 57, 77, 121, 309
floodplains, 7
fluvial sediments, 25
food exchange, 271

food preparation, 197–198, 320, 329–331
food sources, 9, 11–12, 34, 99, 320. See also
  bush foods; hunting
affected by fire, 324–325
macropods, 327–329
mangrove, 165–170
seeds, 197–198, 330–331
small game, 326–327
food storage, 196, 331–332
footprints, fossilised, 151f, 153–154, 176
foraging, 4, 12, 99–102, 321f, 323, 324–329.
  See also hunter-gatherers; seed
  harvesting and preparation
long-term changes in, 339
  risks, 196–197
territories, 11, 123
Fortescue River, 88, 140
fossil beds, 22
fossil landforms, 26
fossils. See also Dromaius novachollandiae (emu)
  eggshell; Genyornis newtoni; skeletal
  remains
  bones, 55, 69, 84, 153, 326–327
  fauna, 18–19
  human footprints, 153–154
  trackways, 65, 154
freshwater environments, 32, 49, 67, 68–69, 152–154

Gamble, C, 74, 107, 116, 222
Gason, S (Mounted Constable), 266, 276, 277, 293
gender division of labour, 210, 329
genetic data, 92, 205, 334
genetic drift, 94
Gentilli, J, 27
Genyornis newtoni, 66–67, 104
  fossilised eggshell, 41
  and human populations, 68
geometric microliths, 185–186
gerontocratic privilege, 300
gibber plains, 6
Gibson Desert, 6
gift economies, 197, 267
  Australia vs Kalahari, 300
Giles, E (explorer), 302–303
gill nets, 101
Gillen, FJ, 4, 22, 43
glacial aridity, 32
glacial maximum
  glacial refugia, 40, 112f, 114–117
glaciers, 121
Glen Thirsty site, 317f, 320, 337f
global diaspora of anatomically modern
  humans, 106
global warming, 158–159. See also climate
  change
gorge systems, 78–80, 99, 143, 147–149, 178, 232t
Gould, RA, 12, 30, 31, 157–158, 163, 179
granaries, 332
granivory, 197
graphic traditions, 213f, 214, 218–220, 262, 305, 340. See also rock art
glass seeds as food source, 40, 197–198, 282.
  See also seed harvesting and preparation
grazing, 40, 210
grasses, 50, 60, 68
GRE8 site, 80, 99, 147, 148–149
‘Great Australian Arid Period’, 24–28, 38
Great Sandy Desert, 6, 89
Great Victoria Desert, 6
Gregory, AC, 330, 331
Gregory River, 80
Griffith Taylor, T, 26
grindstone quarries, 282–287
  chronology of, 279f, 287
grindstones, 32, 97–98, 146, 173, 182, 328f.
  See also seed harvesting and preparation
from Cuddie Springs, 83, 98
distribution of, 272
expedient, 199–200
matrilineal ownership of millstones, 210
  millstones, 190f, 198, 201, 282–287
  mortars, 199, 332
Puritjarra grindstone assemblage, 201–202
  replacing grinding tools, 282
  seed-grinders, 332–333
  tjungguri topstones (mullers), 282
ground cover, reduction of, 121
groundwater, 121, 122, 160
  group compositions, 12
  Haffer, J, 116
  See also stone axes
hafting cement, 188–191, 193, 195
Hammersley plateau, 140–141
Hamilton, A, 210
hand stencils, 220, 256f, 256
Harrison, R, 172
harvesting seeds, 197–198
hatchets. See stone axes
Hawker Lagoon site, 143
Hayden, B, 136, 288
hayricks, 331
hearts, 13, 32, 82, 132, 134f, 322, 323
Allens Cave, 175
JSN site, 145
Lake Eyre basin, 144–145, 182
Pilbara, 142
Riwi, 78
Heatwole, H, 117
Helen Springs quarry. See Kurutiti
Hiscock, P, 48, 113, 186, 196, 272, 289–290, 294
historical linguistics, 29–30
history of deserts, written, 42–44
Hodgkinson, WO, 330
Holdaway, SJ, 330
29
historical linguistics,
érology, 20–29
Horn Scientific Expedition, 20, 37, 294
‘horsehoof’ cores, 96
Horton, DR, 35
Howitt, AW, 28, 131
Hughes, PJ, 112
human behavioural ecology, 328–329
human colonisation of deserts, 56, 68
human ecology, 10–12, 102–105, 112f, 122–124
human fossils. See skeletal remains
human settlement, 34–36
hummock grasslands, 8, 38, 120, 121, 162, 320, 311
hunter-gatherers (cont.)
and ephemeral lakes, 36
equilibrium models for, 31
foraging patterns of, 326–329
granivory, 197
Holocene, 163–164, 208
mobility of, 11–12, 306
number of contacts, for exchange systems
206–208
population density and colonisation, 75, 105–106, 307–308
production of axes by, 290
responses to foraging risks, 196–197
seed-grinding economies, 202
and shellfish, 55
social history of, 338–341
subsection systems, 336
use of Allens Cave, 88–89
use of sandy deserts, 146
hunting, 196, 303f. See also macropods; marsupials
dogs, 209, 339
spears, 194, 195
hydrological systems, 51f–53f, 121
ice-core records, 52, 158
iconic motifs in rock art, 251, 262
‘increase’ ceremonies, 216
India, 106
Indo-Malaysian archipelago, 70–71
infertile soils, 9
ingkwere, 17, 19f, 20, 42, 44, 341. See also ceremonies
initiation ceremonies, 216, 217
inland environments, 39, 56–58, 119–120
inland Pilbara rock-art sites, 246
Innaminka grindstone quarries, 284–285
Inscribed landscape, questions about, 263
interglacial, 48, 51–52, 60–61, 67–68. See also marine isotope stages
interpretation of sites and artefacts, 130–133, 200–201
Intirtekwerle site, 295, 314, 317f, 318, 327, 328
invasion biology, 74–76
invasion pressure, 74
invertebrates, desert, 9
Irtikiri site, 317
Islands in the Interior, 39
James Range East site. See Intirtekwerle site
Jandrowonta people. See Yandruwantha people
Jansz rockshelter, 86, 149
Jaurunworra people, 284
Index

Javanese vs Australian human fossils, 153
jingili people, 270
Johnson, CN, 311
Johnston, TH, 99
Jones, R, 40, 70, 204
JSN site, 145
Juukan sites, 87, 141
Kaalpi site, 246, 321
Kaars, S, van der, 103
Kalkadoon people, 103
Kaalpi site, 246, 321
Kalkadoon people, 259
Kandidarkara (the Rainbow Serpent),
69
Karolta (Mannahill) site, 212, 235
Karrku ochre mine, 280–281
karst plains, 7, 88, 150
Katapiri fauna, 62–64, 65–66, 103
Katapiri formation, 58
Keast, A, 27
Keble, RA, 27
Kimber, RG, 114
Kimberley, 78, 160
King Sound, 121
Kings Canyon, 162
kinship systems, 305, 336
Kirk, RL, 205
Kocurek’s model of aeolian responses to climate change, 55f, 59
Kondo, T, 104–105
Koonalda Cave site, 88, 150–151, 152
kopi mourning caps, 299f
Kulpi Mara site, 90–91, 134f, 133–134, 135f, 317
kunapipi ceremonies, 217, 253
Kurutiti grindstone quarry, 239, 286–287
lacustrine resources, 35, 99–101, 114
Lake Amadeus, 52
Lake Callabonna, 46f, 45–46, 64–65, 69
Lake Carpentaria, 139
Lake Eyre, 27, 53f, 54f, 53–56, 67, 120, 160
drainage system, 7
dune-building in, 120
during MIS3, 68
Etadunna formation, 49
exploration of, 18
extinction of megafauna, 103–104
as fossil ‘dead’ landscape, 43
Holocene occupation of, 182–184
influence on early research, 43
palaeovegetation record of, 61
rainfall at, 6
and SLEADS program, 36–37
Lake Eyre basin, 144–145, 163
grindstone quarries, 282–287
Holocene sites in, 181–182
Panaramitee-style rock art, 228–241
quarries in, 267f
Lake Frome, 37, 52, 57, 112, 121, 160
Lake Garnpung, footprints, 154
Lake Gregory, 60, 106
Lake Lewis, 52, 53, 121
Lake Mackay, 109
Lake Menindee, 66, 82
Lake Moondarra 1 (LM1) axe quarries, 280–290
Lake Mulligan. See Lake Callabonna
Lake Mungo, 31–34, 68, 80–82, 93, 101
Lake Nineteen Mile, 183–184
Lake Tandou, 101, 107, 153
lakes. See also individual lake names, e.g., Willandra Lakes
Bowler’s ‘hydrological threshold’ for Australian, 51f
prehistoric history of, 52–58
Lambeck, K, 119
Lampert, RJ, 112
land ownership and tenure, 12, 305, 340
landesque capital, 41
Landscapes, Rock-art and the Dreaming, 265
land use, 90, 112f, 113f, 124–130, 142–143, 154, 312
Lang, A, 23
language groups, 270, 319f, 332–336
languages, 199f, 210
dialects, 333
Karnaw, 204
Pama-Nyungan, 202–205
Tangkic, 204
Wati language group, 30, 319f, 332–336
last glacial maximum (LGM), 111f, 110–112, 116, 117–119, 339
archaeological sites from, 124–130
defined, 119
impact of, 118, 120–123, 154
impact of, in Australian desert vs Europe, 40
and the Pilbara, 141
as unstable phenomenon, 119–120
last millennium
foraging economy during, 336–339
rock art of, 254–259
late Holocene epoch, 42, 164, 311f, 310–312, 314f
defined, 158
foraging risk in, 196–197
rock art, 222, 260–261
seed harvesting, 197–198
small-tool phase, 196
stone assemblages, 184–193
late Pleistocene epoch, 4, 6, 14, 24, 32, 34, 37, 39. See also Cuddie Springs site, Puritjarra site
arid-zone sites, 73f
colonisation during, 72, 105–106
firing of vegetation, 102
hunter-gatherer groups, 39, 98
Panaramitee-style rock engravings, 222
residential mobility of groups, 98
late Quaternary megafauna, 61, 62f. See also megafauna
lateritic gravel plains, 6
Lawrence, D, 272
layer interfaces, 131–132
lelin blades, trade in, 294–296
LGM. See last glacial maximum
limestone gorge systems, 78, 80
linguistic changes, 203, 205
linguistics, historical 29–30
lithic assemblages. See stone artefact (lithic) assemblages
lithic economy, 195
Little Sandy Desert, 6, 259
Livistona palm trees, 49, 104–105, 140
local social evolution, 23
‘locales’ of activity vs ‘places’, 107
long-distance exchange systems, 272, 296–301
Lorblanchet, M, 172
Louie Creek Cave site, 147, 148
Lourandos, H, 42, 273
luminescence dating methods, 14, 48
lunettes, 33f, 32–34, 143, 153
Macaulay, V, 106
McBrearty, S, 1
McBryde, I, 271–272
McCarty, FD, 271
McConnell, P, 204
MacDonnell Ranges, 6–7, 39, 89
Macintosh, NWG, 183
McKinlay, J (explorer), 322
macropods, 62, 66, 99
hunting of, 34, 176, 298, 327, 329, 339
in rock art, 241, 249, 251
Madigan Gulf (MG4) site, 145
Magee, J, 54–55
Malakunpra II site, 71
Malea site, 140
Mandu Mandu site, 86, 98, 102, 149, 150
mangrove forests, 160, 165–172
Anadara middens, 172–175
economies based on, 250, 251–252
Mannahill (Karolta) site, 212, 235
Marillana A site, 178
marine isotope stages, 43, 51f, 51
MIS2, 119
MIS3, 68–69, 71, 76, 244
MIS5, 52, 56, 57, 61, 105
marine resources, 101–102, 174, 176–177
maritime air masses, 120
marsupials, 9, 21f, 45, 165, 324, 327–329
‘radiation’ of, 50
Marun, LH, 175
Marwick, B, 141
material culture, 340. See also stone artefact (lithic) assemblages, stone tools
Maynard, L, 228, 231
megafauna, 41, 50, 83
Diprotodon optatum, 25f, 45, 46, 46f, 50, 61, 65
distribution of, 46f–47f
of drylands, 61–67
extinct fauna, 22, 24, 41
extinction of, 41, 65–66, 103–105, 324
fossils, 34, 84
Genyornis newtoni, 41, 66–67, 68, 104
Katapiri fauna, 61–64, 65–66, 103
Lake Callabonna fossils, 18
population ecology of megafauna, 65
mega-lakes, 34, 46
metamorphic rocks, 7
microhabitats, 116
microliths, 29, 31, 157
backed artefacts, 186f, 185–186, 187f
geometric microliths, 185–186
middens, 32, 173f, 172–175
mid-Holocene epoch, 14, 29
defined, 158
fauna, 175–176, 205–208
mangrove forests, 165
Pama-Nyungan language, 202–205
rock-art traditions, 221f, 227–254
stone assemblages, 184–185
migration, 21–22, 28, 34, 334
earliest settlement of Australia, 70–71
from Africa to Australasia
linguistic theories of, 29–30
mikiri (Simpson Desert) wells, 182
Miller, G, 41, 103, 104
millstones, 190f, 198, 201, 282–287
Millys Cave site, 141–143
mineral skins, 225–227, 236, 238
oxalate crusts, 226–227, 238
mines, red-ochre, 276–282. See also quarries
mining, commercial, 2f, 15, 140, 279
Miocene epoch, 49
missions, 43, 109
mitochondrial DNA lineages, 92, 106, 153
of dingoes, 206
mobility of populations, 11–12, 79, 107, 196
models of desert prehistory, 72–74
‘clinal model’ of re-occupation, 115–116
‘coastal colonisation hypothesis’, 34
cultural succession model, 29
‘desert culture’ model, 157–158, 163
‘desert transformation’ model, 47–48
Islands in the Interior, 39
‘oasis theory’ of colonisation, 34
molecular taxonomy, 116, 117
monsoons, 8, 52, 61, 120, 122, 150, 308
changes influencing aridity, 37, 41
historical strength of, 69
Holocene, 160
influence of, 3f–9f
and onset of ENSO, 162–163
montane refugia, 37, 117
Montebello Islands, 87, 99, 159
mortars, 199, 332
Morton, SR, 117
mortuary rites, 106, 107
Morwood, MJ, 259
mosaics, successional vegetation, 41
mourning rituals, 297f–299f
Mooserian, 4, 22
Mt Isa sites
axe quarries, 272, 289f, 289–292
graphic traditions, 238–259
Mt William axe quarry, 288
Mudburra people, 270
Mudukian phase, 29
mullers, 198, 201
Mulligan River, 266, 267, 292, 293, 294
multilingualism, 205
Mulvaney, DJ, 34, 47, 193, 243, 246, 266, 271
Mungo 1 (WLH1) cremation-burial, 92–93
Mungo 3 (WLH3) burial, 83f, 93f, 93–94, 101, 107–108
Mungo B site, 99
Mungo, Lake. See Lake Mungo
Munn, ND, 218
Murray Valley, 153, 184
Murray-Darling region, 104, 183, 200
  glacial refugia, 116
Murundian phase, 29
Myers, FR, 109, 304, 340
  mythologies, Aboriginal, 216–218, 260, 264
Namib Desert, 105
Narcooowie grindstone quarry, 272, 285–286, 287
narcotics. See pituri
nardoo (ngardu) grain, 330–331
native title, 14–15
Native Tribes of Central Australia, The, 4, 17, 19f
Nauwalabla 1 site, 71
Nawarla Gabarnmang site, 71
Neanderthals, 23
New Guinea, 3, 70, 71
Newman site, 87, 88
ngardu (nardoo) grain, 330–331
Ngillipidji quarry, 295
ngintaka (ngintaka) mythology, 157, 210
Nicholson, AF, 177
Noala Cave site, 99
North African colonisation, 104
North American desert culture, 163
North American refugia, 117
northern desert fringe, 78, 80
Northern Tribes of Central Australia, The, 4
Northwest Cape, 86, 101, 149–150
northwestern Australia, 6, 15, 21, 60, 121
Nullarbor Plain, 5f, 7, 88–89, 150–152, 161, 328
  caves, 63
  coast and hinterland, 175–177
dingoes, 205
‘oasis theory’ of colonisation, 14
oasis-type environments, 34, 112f, 148
occupation of sites, patterns of, 14, 312–318, 320
ocean crossings, 3
ochre mines, 276–282. See also red ochre
oil and gas exploration, 2f, 15
ontology, Aboriginal, 220–221
open-site excavations, 13
organic artefacts, lack of, 13
Overland Telegraph Line, 17, 20, 302, 331
oxalate crusts, 226–227, 238. See also mineral
  skins
O’Connell, JF, 74
  painted art, 255
palaeohydrology, 54, 58
palaeolakes, 19, 32, 36, 52, 68, 76. See also
  mega-lakes
palaeomagnetic dating, 48, 49
palaeovegetation, 41, 50
Palmer River, 91
palynology, 103
Phylogeographic studies, 202–205, 263, 334
origins of, 199f, 203–204
Panara culture, 198
Panaramitee-style rock art, 202, 213, 222, 229f, 228–241, 254–255
chronology of, 234–238
defined, 228–234
engravings, 213f, 252, 264, 340
form and composition, 233–234
history of the tradition, 238–239
social context of, 239–241
Papunya Tula art movement, 255
patch burning, 324–326. See also anthropogenic fires; fire
patination, 227
patri-clans, 217
paua kudu (seed-storage pits), 332
pearl shells, 273f, 274–276
pelagic fishing, 77
Peterson, N, 10
petroglyphs, 21–24, 232f, 235, 240, 241–244, 260, 286
petrological examinations of stone axes, 271
phylogeographic studies, 117
physical anthropology, 28
phytoliths, 117, 136, 162
Pilbara, 5f, 15–16, 87–88, 137f, 140–143, 321–322
chronology of rock art, 243–245
defined, 6
glacial refugia in, 116
Holocene occupation of, 178–179
inland rock-art sites, 246
late Holocene rock art, 260–261
natural environment of, 49
rock art, 241–254
shell middens, 172–174
Skew Valley midden, rock art, 245–246
social context of art, 251–254
Pintupi dialect, 333–334
‘Pintupi Nine’, 109–110
Pintupi people, 136, 154, 334
pirri points, 190f, 191, 195
pirrian phase, 29
pitfall faunal assemblages, 63
Pitjarntjatja (Pitjantjatjara) dialect, 333–334
Pitjarntjatja people, 334
pituri (narcotic), 266, 293–294
active ingredient in, 293
preparation of, 293
source of, 292–293
plant fossils, 49, 50
plant processing, 143
playas, 52
Pleistocene coastline, 73f, 86, 88, 116, 149
Pleistocene economy, 34
Pleistocene fossil footprints, 153–154
Pleistocene as ice age, ideas about, 25, 38
Pleistocene landmass, 76, 120
Pleistocene pluvial period, 19, 22, 27, 31
Pleistocene sites, 123–133
baler shell from, 274–275
Poaceae, 162, 163
point-to-point subsistence patterns, 112f, 123, 136, 143, 156
point-to-point trade routes, 272
political aspects of research, 14–15
political economy, 214–218, 219, 264–307
pollen, 37, 60, 61, 103, 116, 120, 151
population densities, 10, 42, 114, 296–297, 304, 307–308
population growth, 208–209, 310–312, 336, 339
post-glacial environmental changes, 24
post-Pleistocene period, 31
portable water, 69, 76, 177. See also water prehistory of desert rock art, 219, 261
projectile points on tools, 185
proliferation events, 186
Pukardu ochre quarry, 266–267, 276–278, 284
Puli Tjukura quarry, 135
Puntutjarpa site, 30, 159f, 179–181, 201, 234, 321, 327
Gould’s excavation of, 157–158
Puritjarra site, 90f, 91f, 89–91, 177f, 201, 230f, 317
artefacts, 97f, 135f, 201–202
excavation history of, 70
and Karuku ochres, 280–281
natural environment of, 60, 68, 117, 162
occupation phases at, 135–136
rock art, 234, 237f, 238, 255f, 256
site use at, 107, 134–140
stone assemblages from, 184–185, 191–194
quarries, 267f, 268f, 271–273, 286–287. See also millstones; red ochre
regional vs ‘long transfer’, 282–283
Lake Eyre basin, 283–286
grindstone quarries, 279f, 282–287
Anna Creek, 284
Innaminka, 284–285
Kurutiti, 286–287
Narcooowie, 279f, 285–286, 287
Tooth’s Nob, 283–284
Index

quarries (cont.)
stone-axe quarries
Lake Moondarra 1, 289–290
Mt Isa, 289f, 289–292
Mt William, 288
ochre quarries, 276–282
Anvil Creek, 281
Karrku, 280–281
Pukardu, 276–278
Ulpunyali, 281
Wilgie Mia, 275f, 278f, 278–280
stone-blade quarries
Ngillipidji, 295
Quaternary dating methods, 36, 42
Quaternary sub-era, 52

Radcliffe-Brown, AR, 304
radiocarbon chronologies, 14
radiocarbon dating, 29, 32, 132, 159f, 161f, 243, 280, 303f–311f, 322–323
of continent dunefield chronologies, 37
first use of in arid Australia, 19
of quarries, 287
of rock art, 43, 225, 226, 227, 259
rainfall patterns, 2f, 6, 8, 9f, 121, 155, 309
affecting colonisation, 77
and glacial aridity, 31–32, 60, 122
Holocene monsoons, 160
impact of uncertain, 12
rain-making ceremonies, 274
reaping knives, 331
reburial of artefacts, 13
Red Centre. See Central Australia
red ochre, 93f, 98, 107, 135, 140, 228, 271
distribution of, 272
from Pukardu, 277–278
geochronological sourcing of, 272
mines, 278f, 276–282
preparation of, 276–277
used in burials, 93
refuge areas, 11
‘refuge theory’, 116
refugia, 7, 37–39, 112f, 110–119
‘classical’, 116
cryptic, 116, 117, 156
desert, 37–39, 117
European, 116
glacial, 40, 112f, 114–119
montane, 37, 117
North American, 117
relict flora, 38
and species diversity, 116–117
uplands as, 117–119
regional surveys, 15
Reinach, S, 214
Rainbow Serpent (Kardimarkara), 69
relict flora, 38
religion and rituals, 42, 213f, 214–218, 220–221, 265, 340–341
reptiles, desert, 9
research questions
chronology of rock art, 261–262
graphic systems, 261–263
inscribed landscapes, 261–263
pituri trade, 294
political economy, 219, 264
population growth, 310
residence patterns, 12
resins, as adhesives, 188–191, 287, 294
Reuther, JG, 43
Rindos, D, 74
ritual property, 305
ritual-political system, 217
rituals. See religion and rituals
river catchments, 2f, 7, 57–58, 77
riverine resources, 69, 76, 114
Riwi site, 78, 102
shell beads from, 98
rock art, 23f, 29, 98, 181, 182, 212–213, 318–320
analytical approaches to, 212–213, 221–225, 253
anthropomorphs, 233
archaeological approaches to, 221–225
‘archaic faces’, 252–254
from Burrup-Pilbara region, 214
from Calvert Range, 246
from Central Australian margins, 258–259
dating rock art, 225–228
ever mid-Holocene traditions, 227–254
evidence of social networks, 115
figurative art, 214
graphic system of, 218–220
graphic traditions, 213f, 214, 219–220, 261–263, 305, 340
hand stencils, 220, 256f, 256
iconic motifs, 251, 255
at Koonalda Cave site, 150
at Kulpi Mara site, 133–134
marine subjects, 251–252
mid-Holocene, 171
paintings, 255–256
from Pilbara, 241–254
prehistory of, 219, 261
at Puritjarra site, 136
rates of production of, 222

Downloaded from https://www.cambridge.org/core. IP address: 54.70.40.11, on 02 Jan 2020 at 18:58:51, subject to the Cambridge Core terms of use, available at https://www.cambridge.org/core/terms. https://doi.org/10.1017/CBO9781139023016
<table>
<thead>
<tr>
<th>Index</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>red ochre, 98</td>
<td></td>
</tr>
<tr>
<td>regions, 213–214</td>
<td></td>
</tr>
<tr>
<td>research questions, 219, 261</td>
<td></td>
</tr>
<tr>
<td>secular vs sacred, 219–220</td>
<td></td>
</tr>
<tr>
<td>significance of, 224–225 and stylistic behaviour, 224</td>
<td></td>
</tr>
<tr>
<td>of the last millennium, 254–259</td>
<td></td>
</tr>
<tr>
<td>totemic geography and political economy, 274–221</td>
<td></td>
</tr>
<tr>
<td>'track and circle', 229–231</td>
<td></td>
</tr>
<tr>
<td>from Western Desert, 259–261</td>
<td></td>
</tr>
<tr>
<td>rock varnishes. See mineral skins</td>
<td></td>
</tr>
<tr>
<td>rockshelters, 13, 14, 86, 170</td>
<td></td>
</tr>
<tr>
<td>Allens Cave site, 88</td>
<td></td>
</tr>
<tr>
<td>Cape Range sites, 86</td>
<td></td>
</tr>
<tr>
<td>evidence of occupation at, 130–131, 312</td>
<td></td>
</tr>
<tr>
<td>Kulpi Mara site, 133–134</td>
<td></td>
</tr>
<tr>
<td>Pilbara, 142, 178–179</td>
<td></td>
</tr>
<tr>
<td>Puntutjarpa site, 157, 179–181</td>
<td></td>
</tr>
<tr>
<td>Puritjarra site, 89–91, 134–140</td>
<td></td>
</tr>
<tr>
<td>Serpents Glen site, 146</td>
<td></td>
</tr>
<tr>
<td>rocky-shore ecosystems, 149</td>
<td></td>
</tr>
<tr>
<td>Rosenfeld, A, 229</td>
<td></td>
</tr>
<tr>
<td>Ross, A, 184</td>
<td></td>
</tr>
<tr>
<td>Ross, J, 231, 318</td>
<td></td>
</tr>
<tr>
<td>Roth, WR, 43</td>
<td></td>
</tr>
<tr>
<td>Runton Range, 259</td>
<td></td>
</tr>
<tr>
<td>sacred boards, 217</td>
<td></td>
</tr>
<tr>
<td>Sahara Desert, 105</td>
<td></td>
</tr>
<tr>
<td>Sahul, 71, 94, 99</td>
<td></td>
</tr>
<tr>
<td>saline environments, 32</td>
<td></td>
</tr>
<tr>
<td>saltlakes, 52–58, 122</td>
<td></td>
</tr>
<tr>
<td>salvage and survey contracts, 15</td>
<td></td>
</tr>
<tr>
<td>sand drawings, as storytelling, 218</td>
<td></td>
</tr>
<tr>
<td>sandhill country sites, 124</td>
<td></td>
</tr>
<tr>
<td>Sandover River, 121</td>
<td></td>
</tr>
<tr>
<td>sandplains, 7</td>
<td></td>
</tr>
<tr>
<td>sandy deserts, 144, 145–146. See also deserts</td>
<td></td>
</tr>
<tr>
<td>sea cliffs, as barrier to marine resources, 176</td>
<td></td>
</tr>
<tr>
<td>sea levels, 119, 120, 159–160, 244–245</td>
<td></td>
</tr>
<tr>
<td>sea surface temperatures, 121</td>
<td></td>
</tr>
<tr>
<td>sea voyages, 105</td>
<td></td>
</tr>
<tr>
<td>seasonal drought, 32</td>
<td></td>
</tr>
<tr>
<td>secular vs sacred rock art, 219–220, 257</td>
<td></td>
</tr>
<tr>
<td>sedimentary histories, 130–132</td>
<td></td>
</tr>
<tr>
<td>seed harvesting and preparation, 197–201, 209, 329–330, 331–332</td>
<td></td>
</tr>
<tr>
<td>seed-food species, 198, 325–326</td>
<td></td>
</tr>
<tr>
<td>seed-grinding economies, 202, 210–211, 287</td>
<td></td>
</tr>
<tr>
<td>seed-grinding implements, 31, 35, 164, 190f, 198–200, 201–202, 332</td>
<td></td>
</tr>
<tr>
<td>and 201–202, 332. See also grindstones; millstones</td>
<td></td>
</tr>
<tr>
<td>difficulties with identifying, 200–201</td>
<td></td>
</tr>
<tr>
<td>mullers, 198, 201</td>
<td></td>
</tr>
<tr>
<td>quarries for, 282–287</td>
<td></td>
</tr>
<tr>
<td>seed-storage pits (puna kudu), 332</td>
<td></td>
</tr>
<tr>
<td>serological data, 334</td>
<td></td>
</tr>
<tr>
<td>Serpents Glen site, 91–92, 141f, 145–146, 321, 328</td>
<td></td>
</tr>
<tr>
<td>settlement. See colonisation</td>
<td></td>
</tr>
<tr>
<td>sexual dimorphism in Pleistocene humans, 153</td>
<td></td>
</tr>
<tr>
<td>shell artefacts, 149</td>
<td></td>
</tr>
<tr>
<td>beads, 98</td>
<td></td>
</tr>
<tr>
<td>pendants, 275f, 274–275</td>
<td></td>
</tr>
<tr>
<td>shell middens, 32, 82, 150, 153, 164, 172–175, 172f, 165</td>
<td></td>
</tr>
<tr>
<td>mangrove forest, 165</td>
<td></td>
</tr>
<tr>
<td>Silver Dollar site, 87, 165–170</td>
<td></td>
</tr>
<tr>
<td>Willandra, 99</td>
<td></td>
</tr>
<tr>
<td>Shigesada, N, 74</td>
<td></td>
</tr>
<tr>
<td>silcrete, 50, 182, 272</td>
<td></td>
</tr>
<tr>
<td>Silver Dollar site, 87, 99, 150, 165–170</td>
<td></td>
</tr>
<tr>
<td>Simpson Desert, 37, 60, 139, 182</td>
<td></td>
</tr>
<tr>
<td>Singh, G, 37</td>
<td></td>
</tr>
<tr>
<td>sinkholes, 88, 150, 151f</td>
<td></td>
</tr>
<tr>
<td>site abandonment vs regional abandonment, 130</td>
<td></td>
</tr>
<tr>
<td>site assemblages, 224</td>
<td></td>
</tr>
<tr>
<td>site data, interpretation of, 14</td>
<td></td>
</tr>
<tr>
<td>site-formation processes, 46–47</td>
<td></td>
</tr>
<tr>
<td>site histories, 130–133, 314f, 312–315, 318</td>
<td></td>
</tr>
<tr>
<td>site inventories, 318</td>
<td></td>
</tr>
<tr>
<td>site locations and settlement patterns, 320–321</td>
<td></td>
</tr>
<tr>
<td>skeletal remains, 92–94, 153, 183–184</td>
<td></td>
</tr>
<tr>
<td>showing osteoarthritis, 94</td>
<td></td>
</tr>
<tr>
<td>showing tooth avulsion and wear, 94</td>
<td></td>
</tr>
<tr>
<td>Skew Valley site, 171f, 173f, 184–185, 245–246 ‘skins’. See subsection systems</td>
<td></td>
</tr>
<tr>
<td>sky gods, 216, 217</td>
<td></td>
</tr>
<tr>
<td>Slack, MJ, 142</td>
<td></td>
</tr>
<tr>
<td>SLEADS program (ANU), 36–37</td>
<td></td>
</tr>
<tr>
<td>small-tool phase, 177f, 185, 191–194, 196</td>
<td></td>
</tr>
<tr>
<td>Smith, MA, 112, 164, 286, 318</td>
<td></td>
</tr>
<tr>
<td>Snowy Mountains, 32</td>
<td></td>
</tr>
<tr>
<td>social anthropology, 222, 304–305</td>
<td></td>
</tr>
<tr>
<td>social context of Panaramitee rock art, 239–243</td>
<td></td>
</tr>
<tr>
<td>social development and history of Aboriginal societies, 44, 338–341</td>
<td></td>
</tr>
<tr>
<td>social exchange networks, 273</td>
<td></td>
</tr>
<tr>
<td>social interactions, 336</td>
<td></td>
</tr>
<tr>
<td>societies, hunter-gatherer, 305–308. See also Aboriginal societies, hunter-gatherers</td>
<td></td>
</tr>
<tr>
<td>Sollas, WJ, 4</td>
<td></td>
</tr>
</tbody>
</table>
songlines, 216
southeastern Australia, 13–14, 43, 61, 68, 78, 121
spear armatures, 185
spear-throwers, 186, 194, 195
spearblades, 195
species distribution and ‘refuge theory’, 116
species diversity, refugia, 116–117
Spencer, B, 4, 17, 23, 44, 303
spinifex, 188–191, 195, 330–331. See also hummock grasslands
Sprachbund, 30
'spread zones', 209–210
Stafford Smith, M, 8
Stanton, J, 275
starch, 201
state-and-transition models, 257f–263f, 263, 264
Stephenson, B, 201
step-wise settlement, 72
stone artefact (lithic) assemblages, 93f, 94–99, 140f, 141f, 184–197, 289f, 328
arid zone, studies of, 322–323
classification of, 29
Cuddie Springs, 83
discard rates of, 185
discard zones, 14
flaked stone, 94–97, 135f, 184–197
Puritjarra, 90, 182
Holocene, 176, 209
Lake Eyre basin, 144
Millys Cave, 141–142
paucity of early, 107
Pilbara, 321–322
rates of use, 136–140
site inventories, 318
trade in, 287–292
stone axes, 195, 258, 285f–288f, 292
chronology of, 288f–289f
distribution of, 272, 290–291
hafted, 195, 285f–288f, 292
petrological examinations of, 271
backed artefacts, 186f, 185–186, 187f
chaledony tools, 188, 193
chert tools, 142, 188, 193
circumcision knives, 23
composite tools, 185, 194–195
convex scrapers, 97, 135
dendscrapers, 193
‘horseshoe’ cores, 96
ironstone flakes, 141
geometric microliths, 29, 31, 157, 185–186
knives and blades, 289f, 294–296, 331
pirri points, 190f, 191, 195
pirriian implements, 29, 191
problems with applying typology to artefacts, 201
scrapers, 135
stone tool systematics, 13, 29
tula adzes, 187f, 186–190, 192, 193
tula adze slugs, 186–191
type artefacts, 29
‘type fossils’, 29
white chert, 135
stony deserts, 6, 50
storytelling, sand drawings as, 218
stratigraphy, 22, 124f–131f, 130–133, 148, 317f
of deposits, 13
of desert sites, 225
of palaeo-shorelines, 19
of Wilgie Mia mine, 278f
of Kulpi Mara site, 134f–135f
Strehlow, TGH, 216
Strzelecki Desert, 21f, 37, 43, 286, 322
Sturt, C (explorer), 20, 24–25, 329
Sturts Meadows site, 234–235
stylistic behaviours and rock art, 224
sub-aerial weathering, 227
subincision, 23
subsection systems, 336
subsistence patterns, 99–102, 336
summer monsoons. See monsoons
‘super-totemic’ ancestral beings, 216
superimposition in rock art, 227
supernatural beings, 217
taphonomy, 13, 255
Tartangan phase, 29
Tasman Sea, 60, 121
Tasmania, 3, 71, 77, 121, 229
Tate, R, 18, 37
Taylor, L, 218
Taylor, TG, 26
technology, Aboriginal, 11, 196, 209, 339
tektites, 176
temperature
changing in LGM, 122
extremes of, 8
temporary water supplies, 12
Terebralia middens, 172
territoriality and land use, 10, 12, 136
Tertiary sub-era, 48
The Dreaming. See dreaming
The Pilbara. See Pilbara
Therreyererte site, 258–259, 321
Index

Thirrri people, 69
Thomas Reservoir site, 252
Thomson, DF, 154, 270, 300
Thorley, PB, 48, 114
Timor Sea, 3
Tindale, NB, 28–29, 40, 41
Tingari traditions, 253–254, 260
Tjapaltjarri, Piyiti, 109
Tjapananga, Pinta Pinta, 109
Tjungkupu site, 302, 314, 315f
TNL sites, 101
Tonkinson, R, 12, 44
tool kits, 196–197, 209, 210. See also stone artefact (lithic) assemblages
wooden, 209, 288
tooth avulsion, 94, 183
tooth–enamel analysis, 65
Tooth's Nob grindstone quarry, 284
topographical barriers, 77
totemism, Australian, 23, 216, 241, 258
ancestors, 214–216, 220
designs, 218f, 219–220, 335f
goography, 214–221, 222, 241, 254, 265–341
sites, 320–321
'track-and-circle' engravings, 214, 229–231, 261. See also rock art
trade and exchange, 11, 99, 266–270, 274, 296–301
archaeological approaches to, 271–274
grindstone quarries and millstones, 282–287
leilira blades, 294–296
piti (narcotic), 292–294
red-ochre mines, 275–282
shells, 274–276
stone axes, 287–292
stone knives, 294–296
systematics, 270–271
transhumance, 11
translocation of species, 104
tropical cyclones, 8
tula adzes, 187f, 186–190, 192, 193
tula adze slugs, 186–191
type artefacts, 29
'type fossils', 29

Ulpunyali ochre quarry, 136
Uluru site, 260
unifacial piri points, 29, 190, 191
uplands as refugia, 117–119. See also refugia
vegetation, 37, 59, 60–61, 162
changes, 103, 120, 121, 162–163

Veth, P, 39–40, 106, 115, 116, 222, 305
Walga Rock site, 178
Walinya site, 260
Wallis, LA, 48
Wanga East (W04) site, 181–182, 230f, 236–238, 317
Wangamirri, JR, 266
Wangkangurni people, 182, 277, 293
Warburton River, 37, 61
Warburton sites, 157
Warrpiri people, 217, 280
Warwumungu people, 20
Wasson, RJ, 37, 59
water, 10, 12, 69, 112–113, 115, 160
water tables, 122
watercraft, 77
waterhole death assemblages, 83
Wati Kutjarra tradition, 260
Wati language group, 30, 319f, 332–336
Webb, S, 62, 74, 154
wells, 84, 113, 182
west coast, 86–87, 165–172
Western Desert, 6, 30, 144, 259–261, 321–322, 324
Aboriginal societies from, 10, 332–336
cultural stability in, 163–164
rock art of the margins of, 259–261
scarcity of stone for tools, 282
Serpents Glen site, 91–92
Wati language group, 332–336
wetlands, 121, 143, 178, 322
Whitehouse, FW, 26
Wiessner, P, 224
wildfires, role in desert ecosystems, 8
Wilgie Mia ochre mine, 276, 278f, 278–282
Willandra Lakes, 31–34, 48, 52, 55, 56, 81f, 80–82, 152–153
geomorphology, 33f
Williams, AN, 311
Williams, E, 322
Winburk camp, 109
wind erosion, 26
wind systems, 27
winnowing trays, 194, 195, 197
WLH1 (Mungo 1), 92–93
WLH135, 92
WLH3 (Mungo 3) site, 93f, 93–94, 101, 107–108
Wood, JG, 26, 34, 38, 116
wooden artefacts, 186–188
dishes, 194, 195
implements, 136, 194–195, 196–197, 279
tool kits, 209, 288

Downloaded from https://www.cambridge.org/core. IP address: 54.70.40.11, on 02 Jan 2020 at 18:58:51, subject to the Cambridge Core terms of use, available at https://www.cambridge.org/core/terms. https://doi.org/10.1017/CBO9781139023016
woodlands, 50, 60, 120, 162

Yandnuwantha people, 277, 286, 293

Yankunytjatjara people, 334

Yengoyan, AA, 336

Yirra site, 143

Younger Dryas stadial, 158

Zietz, ACH, 45