

INDEX

- Abu Hureyra, 224
- abundance, 93
- abundance charts, 93
- Acheulian, 33–34, 168, 185
- adobe, ix, 128, 156, 212, 216, 226, 230, 371–72, 379
- alfisols, 127, 129, 142, 216, 224, 307, 317
- Allerød, viii, 25, 167, 174–75, 177–79, 185
- alluvial soils, viii, 135–36, 144, 201, 224, 415, 581
- alluvium, xii, xxi, 14, 28, 40, 52, 57, 83, 123, 133, 135–38, 142–46, 166, 179, 187, 189–90, 207–8, 216, 295, 300, 322–23, 339, 344, 406, 568, 573
- aluminum, xxiii, 47, 120, 127, 130, 287, 313
- Åmot øvre, xi, xiii, 56, 237
- ancient farms, 28
- andosols, 334
- animal management, 48, 64
- animal trampling, 64
- apatite, 91
- Apennine, 180, 257, 282, 302
- arable, 179, 181, 190, 192, 296, 302–3, 307, 324
- Arbon/Bleiche 3, 37, 43, 184, 358, 529, 552
- archaeological materials, xix, 25, 30, 67, 142, 211–12, 237, 268, 517, 578
- archaeological soil micromorphology, xix, xx, xxiv, 3, 530, 560–61, 582
- archaeomagnetic dating, 143
- ard, xiv, 29, 182, 304, 310, 313, 315–17, 329
- Arediou, 231, 493
- arena, 48, 572
- Arene Candide, xiv, 25, 29–30, 32, 43–44, 262–63, 272, 342, 355, 361, 368, 377, 400, 444, 539, 560, 565–66, 570, 572
- arionid, 279, 373, 496
- Arizona, 339, 341, 464, 567, 571
- artisan, ix, 237, 245, 368, 394, 466, 518
- ash, 87, 89, 244, 273, 334, 443, 449, 468, 500, 511
- ash dumps, 45
- Ashcombe Bottom, xiv, 182, 314–15, 330, 529
- ashes, 383
- Atlantic Period, 31, 295–96
- Atzmaut, 358–61
- autofluorescence, 76, 246, 265, 352, 455, 488
- Avaldsnes, xiv, 11, 12, 48, 61, 113, 224, 229, 241, 322, 397, 405, 456, 466, 478, 565
- Bad Homburg, 415
- badgers, 257
- Bagbölle, xiii, 29, 113, 118, 297, 308, 311, 322, 391, 447
- Baldock, 415, 418, 429, 463, 561
- Balksbury Camp, 112, 295–96, 530, 542, 558, 563, 582
- Bamble, 137
- Bargone, 14, 16, 47, 133, 138, 180, 183–84, 303, 449, 540
- bark, 49, 88, 138, 247, 376, 431, 466
- barley, 43, 235, 246, 285, 311, 467
- barrow, 47, 110, 125, 137, 397

- basalt, 14, 26, 40, 165–66, 168, 274, 278
- bat, 262
- Bath, 144, 158, 245, 479, 529, 560
- Battlesbury, 458, 561
- Beaker Period, 330, 530
- bear, 257
- bedding, 30, 44, 87, 136, 170, 184, 211, 229, 236, 272, 355, 370, 376
- Bedouin, xiv, 247, 346–47, 354, 358, 445, 548
- beetles, 138, 262, 365, 419–20, 479
- Belgium, 45, 88, 118, 132, 179, 225, 229, 297, 300, 330, 336, 378, 398, 410, 413, 448, 480, 495, 540–41, 543, 546, 549, 555, 568, 573
- Belize, x, xv, 27–28, 46, 53–54, 187, 198, 233, 239, 330, 478, 505, 547–48
- Belle Tout, 110, 112, 221, 224, 440
- bell-making, 243
- bird, 262
- Birstal, 405–6
- Bishopsgate, 95, 236, 366, 575
- blackberry, 257, 265
- bleached stone rims, 123, 295
- blubber, 43, 287, 380, 394, 478, 536
- blue light, 30, 61, 76, 119, 177, 203, 205, 246, 260, 267, 272, 274, 333–34, 349, 353, 359, 366, 373, 405, 431, 455, 457, 480, 485–86, 488, 491, 500
- boat grave, xv, 266, 484–86
- boathouse, 222, 224, 466
- Bodleian Library, 244, 383
- Bodmin Moor, 30, 86, 126
- body stain, 480, 485–86
- bog ore, 61, 382
- bone, 261–63, 279
- Bordusani Popina, 225
- Boreal, viii, 29, 99, 118, 120–21, 134, 295, 297, 447
- borehole, 20, 34, 48–50, 204–5
- Borough High St, 244
- Boudicca, 84, 235
- Boulder Clay, 226, 230, 371, 395
- Bourne Valley, 180, 303, 559
- Boxgrove, viii, ix, xii, xiii, xvi, xvii, xxi, 20, 24–26, 29, 32–34, 44, 48, 51, 59, 88, 135, 138, 145, 165, 167–70, 172, 179, 184–85, 187, 198, 201, 203–5, 207–8, 261, 271, 273, 277–79, 282, 448, 450, 538, 551, 556, 558, 573, 579
- Boxmoor, 184
- Brean Down, 32, 180, 226, 302, 314, 372, 375, 399, 530, 533, 557
- breccia, 25
- Brewer, 66, 535
- brick, 225, 231, 234, 324, 333–34, 441, 491, 493, 495, 500, 570
- brickearth, xiii, xv, 25, 52, 85, 128–29, 136, 167, 169–71, 216, 224, 226, 228, 235–36, 302, 322, 325, 328, 332, 344, 371–73, 381, 395, 398, 400, 409, 431, 492
- briquetage, xi, 57, 61, 239, 382
- Brittany, 126, 301, 413, 546
- Broadmeads, 145
- Bronze Age, xvii, 30, 32, 40, 46–48, 61, 64, 100, 110, 112, 119–20, 122, 126, 130–31, 136–37, 146, 187, 189–90, 198, 201, 207–8, 221–22, 224, 226, 231, 244, 258, 286, 290, 295, 315, 317, 330, 339, 355, 358–61, 372, 374, 378, 381–82, 389, 399, 406–7, 419–20, 440, 444, 447, 450, 456, 461, 467, 487, 493, 529, 533, 537, 543, 550, 553, 557, 559–60, 566–68, 570, 577
- Brougham Castle, xiv, 415, 420
- buckwheat, 183
- bulk analyses, 33
- bulk sampling, 49
- Bullock, xix, 4, 24, 30, 53, 66–67, 76, 83, 86, 88, 92–93, 129, 167, 256, 307, 498, 506, 536, 541, 552, 557, 567, 569, 571
- Büraburg, 183, 329–30, 550
- buried soils, xii, xxi, 32, 37, 47–48, 51, 53, 64, 99–100, 109–10, 113, 118, 122, 126, 129, 131, 134, 174, 180, 187, 189, 207, 212, 222, 224, 290, 296, 313, 316, 326, 376, 397, 406, 421, 440–41, 514–15, 537
- burned flint, 189
- burnt bone, 110
- burnt eggshell, 246
- burnt soils, 47

- burrowing, 82, 92, 118, 145–47, 166, 172, 175, 182, 192, 197, 202–3, 221, 223, 283, 289, 311, 340, 378, 407, 419, 424, 429, 432, 435, 464, 479–80, 483, 501
- Bussey's, 409
- butchery, 33, 52, 188, 202, 246, 280, 380, 394, 456, 468, 582
- Butser Ancient Farm, xii, xiii, xv, xvii, 29–30, 47–48, 53–54, 109, 229–30, 235, 247, 256, 308, 310–11, 328, 344, 346–49, 353–54, 365, 370, 391, 399–400, 402, 437, 440, 447, 491, 563, 572–73
- C:N ratio, 52, 112, 118, 121, 313
- Cabot Park, 198, 201, 557
- Cactus Hill, 284, 543, 565, 582
- calcite, 54, 90, 172, 195
- calcium, 14, 25–27, 29, 33, 44–45, 53–54, 60–61, 76, 91, 127, 133, 175, 184, 202–3, 237, 245, 257–58, 260–67, 289, 301, 317, 333–34, 340, 349, 352, 355, 357, 362, 366, 370, 372–74, 376, 383, 405, 419, 429, 431, 435, 454–55, 458, 463–64, 468, 480, 485–87, 491–92, 497, 500, 502, 506, 511–12, 537, 551
- calcium carbonate, 25–27
- calcium oxalates, 26, 44, 237, 257, 264, 357, 370
- calcrete, 26
- Canada, 237, 257, 260, 301, 339, 407, 464
- canals, 184, 261, 279, 339–40, 462, 466
- canids, 212, 259–260
- caracal, 262
- Carn Brea, 126, 301
- carnivores, 212, 247
- cassiterite, 14, 30, 61, 136, 166, 244, 382, 467
- Çatalhöyük, 37, 446, 534, 566–67, 577
- cattle, 43, 55, 247, 354, 365
- cattle path, 424
- cave, 25, 262
- cave earth, 178, 263, 272–73
- caves, xvii, 18, 25, 167, 263, 272, 344, 355, 360–61, 370, 389, 443–44, 529–30, 535, 547, 553, 582
- cellulose, 76, 88, 115, 121, 205, 256–57, 264, 266, 359, 506
- cereal, 45, 50, 88, 110, 120, 126, 181, 246, 256, 258–59, 264, 267, 314, 327–28, 333–34, 353, 362, 365, 367, 371, 373, 375, 380, 394, 400, 406, 411, 424, 431–32, 435–36, 455, 457, 468, 480, 493, 500
- cess, ix, xv, xvii, 30, 40, 46–47, 61, 211–12, 245, 247, 263, 266–68, 328, 334, 362, 371, 373–74, 391, 401, 405, 410, 424, 431, 434, 455–59, 463, 466, 480, 485, 497
- Cévennes, xiv, 26, 437, 444
- chalk, xii, 25, 28, 52, 86, 100, 110, 113, 118, 131, 138, 143, 167, 169, 172, 175–76, 179–82, 184, 192, 221, 230, 266, 279, 295–96, 303, 316, 324, 330, 371–72, 399–400, 415, 429, 439–40, 449, 457, 491
- chalky till, 131, 395
- Channel Tunnel, 175, 189
- charcoal, xi, xii, xiii, 21, 23, 31, 40, 43–45, 81, 85, 87, 100, 110, 112, 120–21, 123, 126, 128, 145–46, 156, 176–82, 185, 189–90, 192, 194, 197, 200, 206–8, 222–23, 226, 228, 231, 233, 241, 273, 282–85, 287, 295, 297, 300–2, 311, 314, 316, 321–22, 324, 326–28, 332–40, 345, 347, 353, 355, 360, 365, 367, 373, 375–76, 378–80, 383, 400, 404–5, 408, 411, 419–21, 424, 428, 430–32, 441–43, 455, 464–65, 468, 478, 483, 487, 491, 496, 505–6, 513–14, 546, 570
- China, xii, 26, 45–46, 55, 128, 133, 145–46, 157, 168, 207, 216, 228, 235, 267, 302, 395, 448, 458, 548, 554, 556, 560, 574, 582, 584
- chipping floors, 24, 169, 186, 273
- Chisenbury, 456, 567–68
- chitin, 44, 262
- chlorine, 54, 196
- Chongokni, ix, xi, xii, 14, 32–34, 54, 164, 271, 273–74, 277
- Chuoli, 164
- Chysauster, 131, 182, 330, 577
- Cistercians, 122
- City of London, 129

- clay coatings, 90, 94, 129, 131, 158, 183, 307, 313–15, 326, 328, 336, 338, 431, 442–43
- dusty, 129, 132, 170–71, 174, 177, 182, 188, 204, 226, 297, 300, 302, 307, 310, 313–16, 321, 326, 328, 336–38, 345, 397, 430–31, 435, 440, 501, 514
- limpid, 129, 307, 310, 315, 325, 454
- clay dispersion, 127
- Clay-with-Flints, 131, 182, 371–72, 400
- clearance, 110, 118, 126, 180, 183, 271, 290, 295
- clunch, 230
- coastal, 188
- coastal environments, 27
- coastal resources, 186
- cob, 230, 375–76
- cobbles, 21, 158, 165
- coffin, xv, 132, 479–80, 482–83, 486, 535
- Colchester House, 95, 505
- colluvium, xii, xiv, xxi, 29, 32, 47–48, 88, 112, 125–26, 128–29, 131–33, 135, 166–67, 169–70, 179–83, 216, 231, 234, 282, 295, 302–3, 308, 311, 322, 330, 340, 410, 415, 418, 429, 450, 482, 484, 504, 554–55
- combustion zones, 272, 397, 404
- complementary analyses, 39
- Complex societies, 37
- conch, 233, 506
- conductivity, 49, 53
- constructional materials, viii, 212, 397
- cooked bone, 246
- cooking pits, 277, 283, 285, 289, 297, 468
- cool climate, xii, 24, 33, 48, 60, 118, 166–67, 177, 179, 185, 272
- copper, 61, 86, 241, 244–45, 287, 382, 467
- Copper, xxiii, 49, 61, 241, 243–45, 267, 287, 327, 329, 431, 434, 436, 455, 466–68
- Coppergate, 46, 132, 265, 398, 461, 554
- coprolites, 30, 46, 55, 60, 93, 258–60, 265, 334, 372–73, 424, 450, 455, 458, 551
- human coprolite, 60
- cores and coring, xii, 20, 33–34, 36, 48–49, 66, 113, 198, 222–23, 225, 274, 278, 398, 401, 552
- Cornwall, xix, 28, 32, 46
- counting, 314
- Courty, xix, 22, 208
- Craig Rhos-y-felin, 397, 570
- Creeton Quarry, 241, 539
- cremation, x, 241, 391, 478, 482, 486–87
- Cressing Temple, 375, 395
- cristobalite, 86
- crossed polarized light, xx
- crust, 54, 132, 171, 315, 337, 344, 346, 349, 352–54, 359, 362, 428
- crusts, 91, 114, 132, 183, 256, 306–7, 317, 348, 379, 428, 463, 567–68
- cultivation, ix, xiv, xvii, xxi, 7, 28–29, 32, 82, 110, 112, 118, 122, 126, 146, 180, 182–83, 224, 271, 290, 297, 305, 307–8, 311–17, 322–23, 325, 327–28, 330, 332, 337–39, 341, 386, 421, 447, 464, 484, 502, 514, 517, 537–38, 542, 546, 565, 575, 582
- hoe cultivation, 313
- cyanobacteria, 27
- cylinder cores, 36
- dams, 132, 399
- dark earth, xv, xxii, 23, 27, 29, 37, 39, 47–48, 51–52, 95, 100, 132, 234, 244, 328, 330, 333, 371, 381, 383, 403, 408, 430–31, 457, 459, 461, 479, 490, 492, 494–98, 500–3, 505–6, 511, 514–15, 518, 557, 560, 564–65, 575, 584
- Dartford, 129, 302
- daub, 30, 56, 84, 181, 212, 216, 225–26, 230, 235, 237–38, 321, 333, 344, 353, 371–72, 400, 404–5, 447, 467–68, 491–92, 505, 541
- Deansway, 258, 381, 429, 457, 479, 495–97, 541, 549, 559
- decalcification, 24, 144, 195, 197, 202–3, 268, 440, 487, 497, 502, 511
- decarbonation, 26, 52, 506, 511
- Denmark, 18, 20, 29, 115, 118, 126, 222, 226, 317, 375, 391, 447, 479, 539, 548, 568, 577–78
- Dexter cattle, 347–48
- diatoms, 39, 45, 53, 81, 87, 89, 184, 194, 258, 322, 375–76, 378, 383, 431, 441, 454, 459, 483

- ditches, 449, 456, 459–61, 465–67, 477, 491, 518, 522
- Djibouti, 14, 40, 135, 158, 165, 575
- dog, 30, 87, 259–60, 265–66, 405, 410, 431, 434
- domestic, 349, 368, 457
- domestic occupation, 43
- Dona Anna, 339
- Dragon Hall, xiii, 353, 366, 377, 491, 559, 577
- Drayton Cursus, 143, 300–1
- droveways, 415, 421, 436–37, 440, 443
- dry valley, 185
- dunes, 171
- dung, ix, xiii, xiv, 26, 30, 43, 45–48, 51, 55–56, 61, 65, 87–89, 115, 133, 184, 230, 235, 237, 245, 247, 258, 311, 316–17, 322, 329, 347, 352–55, 358–59, 362, 365–66, 368, 370, 375, 378–79, 382–83, 385, 398, 400, 403–4, 406, 408, 410–11, 414–15, 418–21, 423–24, 429–31, 435, 437, 440–41, 443–44, 446–47, 450, 457, 461, 483, 501, 505, 529, 537, 576
- dung spherulites, 26, 55, 89, 237, 256–57, 352–54, 357, 359, 370, 383, 411, 420, 457
- E18, xi, xiv, 14, 30, 48, 56, 61, 237, 549, 568–69, 581
- Earthworks Project, 28, 94, 134
- earthworm granules, xv, 26, 85, 87–88, 174–76, 180, 182, 184, 279, 303, 328, 333–34, 373, 408, 496–97, 502
- earthworms, 82, 92, 121, 182, 333, 420, 456, 483, 486, 530
- excrements, 479
- Easington to Paull, 406
- Eastcotts, 449
- Easton Down, xii, 110, 112, 118, 221, 312, 316, 558, 582
- Ecsegfalva, 29–30, 400, 468, 537, 540, 559, 582
- EDS, 31, 33, 39, 45, 51, 59, 85, 144, 202, 237, 241, 258, 262, 274, 322, 361, 383, 420, 440, 443, 459, 478
- eggshell, 30, 246, 284, 333, 373, 380, 431–32, 491
- Eketorp, 450
- El Salt Cave, 48
- elephant, 188, 280
- elk, 247
- enchytraeids, 171
- entisol, 376
- Epipalaeolithic, 25
- epipedon, 100, 125
- estuarine, xvii, 22, 32, 83, 189, 195, 197–98, 201–2, 226, 240, 279, 344, 375, 381
- ethnoarchaeological studies, 29
- Eton, 458, 461
- excarcation, x, 44, 263, 405, 478, 482, 487–88
- excrements, 92
- experiments, 308
- fabric, 23–24, 66, 74, 76, 82, 84–85, 87–90, 92, 121, 123, 128–29, 147, 170–71, 179, 197, 203, 221–22, 314, 317, 322, 326–27, 366, 373, 414, 437, 440–41, 483, 535, 543, 579
- fallow, 247, 308, 311, 314, 316, 328
- fayalite, 14, 86, 241, 382
- feather, 263
- fecal waste, 46, 211, 243, 263, 268, 395, 405, 456, 502, 505
- fen carr, 189, 206
- ferruginization, 194, 198
- Fevang nordre, 306
- fine fabric, 24
- fir, 43, 183, 358
- fire installations, 381
- fish, 186, 260
- fish bone, 44, 246, 408, 468, 478
- fish processing, 61, 246, 468
- Fishbourne, 399
- FitzPatrick, 66–67, 283, 530, 544, 559, 579
- flash floods, 40, 165–66
- flatbed scan, 74
- flooding, xii, 53, 92, 137, 144–45, 185–87, 190, 196–98, 201, 208, 300, 399, 406, 466, 559
- floor coverings, 229, 368, 377
- floors, xiii, xiv, xv, 23, 29–30, 49, 54, 61, 82–83, 87–88, 125, 128, 132, 177, 212, 216, 226, 228–31, 235–36, 245–46, 256, 263, 301, 321, 332, 334, 344–45, 348–49,

- floors (*cont.*)
 - 353–54, 362, 365–66, 368, 370–79, 381–83, 385–86, 389, 391, 395, 397, 399, 401–2, 404–5, 407–11, 447, 451, 454–55, 458, 461, 466, 490–93, 506, 511, 513, 534, 548, 553, 560, 563, 572
 - ‘clay’ floors, 230
- fluorescence, xx, 76, 89, 96
- fluorescence microscopy, xx
- fluvisol, 324
- fodder, 30, 211, 237, 285, 295, 349, 355, 358, 360, 365, 376, 401, 573
- Folly Lane, 47, 113, 184, 440, 480, 563, 569, 583
- foraminifera, 31, 39, 45, 191–92, 195–98
- forensic, 4, 84, 551, 571, 580
- Fort Harrouard, 100
- fragipans, 283, 571
- France, xiv, xv, 26, 37, 87, 100, 122, 126, 131, 168, 179, 207, 228, 267, 297, 308, 315, 330, 333, 335, 342, 353, 355, 368, 374, 390, 395, 403, 407, 413, 429–30, 436, 444, 450, 457, 459, 462, 489, 495, 498, 500, 503, 535–36, 543–44, 546, 553, 555, 560
- Free School Lane, 30, 61, 244
- freeze-thaw, 91, 135, 167, 226, 272, 283, 289
- frequency, 93
- freshwater, 186
- Friary, 145, 325, 329
- frost, 83, 92, 172, 311
- FTIR, 3, 55–57, 81, 86–87, 237, 240, 261, 381, 486, 561
- fuel ash, 61, 225, 238–40, 317, 381, 467
- fungal, 46
- fungi, 207
- furnaces, xvii, 234, 237, 268, 381, 401
- gardens, 225, 330, 335, 391, 395
- geoarchaeology, xix
- Gibraltar, 18, 259–60, 262, 272, 380, 532, 547–48, 564, 579
- glass phase silicates, 56, 239
- glaucite, 14, 86, 202, 557
- gley. *See* gleying
- gleying, 82, 189
- Gleysols, 113
- goats, 247, 347–48, 355, 357–58, 365, 437, 457
- goethite, 92, 132, 202
- Gokstad, 47, 49–50, 113
- Gokstad Mound, xvi, xvii, 113, 118, 223–24, 395, 484
- Gokstad Ship, xi, xii, 21, 34, 40, 48, 395, 459, 484
- Goldcliff, xiii, 44, 127, 146, 189, 192, 198, 200, 206, 273, 284, 415
- Gorham’s Cave, 260, 272
- Gough’s Cave, 32, 272
- grassland, 52, 122, 191–92, 314
- graves, 478–79, 481, 483–84, 486, 533, 551
- Greece, 207, 233, 355, 374, 444, 479, 491, 545, 550, 553
- Greensand, 14, 557
- gray literature, xx
- grindstones, 87
- groundmass, 24
- ground-raising, 69, 128, 212, 224–25, 228, 231, 332, 362, 391, 394, 398, 492, 513, 515
- grubenhäuser, 395, 408, 410–11, 456, 461, 490
- Grytting, xiv, 403
- guano, xiii, 44, 55, 61, 243, 262–63, 272–73, 287, 448, 491, 553, 576
- Guantanamo Bay, 40, 54, 380, 541
- Gudbrandsdalen, xiv, xvi, xviii, 40, 135, 146, 207–8, 403
- gypsum, 21, 91, 190, 198, 212, 231, 340, 360, 379, 399, 465
- Ha Roa, xiv, 358, 360
- Hadrian’s Wall, 113, 224, 397, 420
- haematite, 92
- Háls 1, 222, 376
- Hambacher Forest, 29, 308, 310, 314
- hammerscale, 240, 381
- Hampton Court, 335, 395, 562, 580
- hand axe, 33–34, 54, 274, 278
- Harold, 411
- hay, 50, 257, 285, 322, 358, 368, 461, 573
- Haynes Park, 47, 449, 468
- hazel nut shell, 44, 283
- Hazleton, 31–32, 110, 112, 296, 312, 314, 316, 397, 533, 557, 575
- hearths, 375, 399

- Heathersett, 468
 heavy metals, xxiii, 65, 243, 245, 327, 329, 362, 382, 431, 435–36, 465–66, 542
 Heimdaljordet, xi, xv, 21, 48, 459, 467, 484, 486, 560
 Helganes, xiii, xvii, 286, 380
 hematite, 54, 164, 234
 Hengistbury Head, 53, 119–20, 126, 131, 138, 532, 558, 575
 herbivore dung, 26, 212
 herbivores, 247
 Hesby, xiv, xv, 184, 450, 461, 481–82, 485–86, 548
 Heybridge, 457
 hierarchy of the features, 81
 histosols, 122, 183
 Hol, xiii, 61, 241, 382
 Holocene, xviii, xxi, 20–21, 25–26, 32, 40, 47, 49, 52–53, 123, 127, 130, 133, 136, 142, 146, 157, 180, 184, 186, 188–89, 198, 207–8, 272, 295, 307–8, 418, 532, 534–35, 539–40, 543–44, 546, 551, 555–56, 558, 560–61, 564–66, 570, 574–75, 577, 583
 Holywell Coombe, 175–76, 538, 571
 hominid, 24, 33, 165, 203, 538, 558, 573, 583
 hominin, 52, 135, 168, 170, 172, 185, 272, 277–79, 517, 551
 hominin tibia, 52, 261
Homo heidelbergensis, 33
 horses, 365
 horticulture, ix, 305, 316, 330, 332–33, 502–3
 Huizui, xii, 26, 128, 133, 145–46, 230, 302, 395, 458, 492, 560, 574
 human coprolites, 46, 87, 259, 263–66, 461, 480, 485
 human waste, 46, 211, 245, 247, 260, 264, 267–68, 277, 334, 382, 391, 405, 414, 457–59, 485
 humification, 88, 115, 118, 120, 138, 256, 366
 Hungary, 29–30, 136, 235, 267, 400
 hunter and gatherer, xxii, 228, 246, 272, 274, 277, 282–83, 289, 346, 407
 hydraulic mortar, 231, 233
 hydromorphic, 91, 130, 133, 145, 204, 208, 300, 340, 398, 455, 535
 hydroseral succession, 49, 138
 hyena, 30, 87, 259–61, 266, 272, 555–56
 hypocoating, 92, 223
 Ian Cornwall, 175, 303, 487
 IJsselmer polder, 203
 illuvial, 94, 127, 129, 317
 image analysis, 33, 94–95
 industrial, ix, xxii, 26, 56, 65, 136, 187, 211, 234, 237, 241, 243, 245, 268, 329, 362, 368, 379–80, 385, 394, 400, 405–6, 431, 435–36, 457, 465–67, 478, 489, 498, 518
 infield, 316, 325
 Innova Park, 137, 183, 415
 insects, 51
 instrumental methods, vii, 54
 intercalations, 91–92, 129, 145, 168, 171, 175–76, 180, 182, 192, 197, 201, 205, 226, 230, 296, 300, 315, 321, 324, 326, 328, 332, 336, 339, 415, 418, 440, 449
 intertidal, 19, 53, 187, 554
 intestinal remains, 263
 iron, xii, xiii, xiv, 14, 30, 45, 50, 54, 56–57, 60–61, 65, 84, 86, 89, 91–92, 94, 113, 115, 120–21, 125, 129–31, 133, 143–45, 147, 164, 184, 188–89, 192, 194–97, 200–5, 207, 216, 223, 228–29, 235, 237, 239–41, 261–62, 265, 268, 279, 281, 284, 287, 289, 295–97, 300, 311, 314, 317, 322, 326, 329, 333–34, 336–38, 340, 368, 370, 372, 375–76, 379–81, 383, 394, 406, 414, 418, 420–21, 431, 434–35, 441–43, 455, 458, 464–66, 468, 479–80, 482–85, 487, 497, 502, 505–6, 514, 539, 555, 558
 Iron Age, xiii–xv, xvii, , 30, 32, 43–44, 46, 48, 56, 109–10, 112, 119, 121, 131–32, 137, 143–44, 181–82, 222, 224, 226, 237, 239, 241, 258–59, 284–86, 290, 296–97, 300, 308, 311, 317, 322, 330, 348, 368, 375, 380–81, 391, 401, 403, 405–6, 415, 418–21, 424, 435, 440, 446–47, 451, 456, 462, 466, 468, 480, 482–85, 487–88, 533, 539, 548–49, 557, 561, 566–68, 572, 576, 578, 580–81

- iron slag, 14, 61, 94, 240–41, 381, 431, 435, 468, 505
- iron spherules, 241
- iron-manganese, *See also* iron; manganese
- irrigation, 339, 464, 549
- Israel, xiv, 30, 247, 259, 342, 347, 355, 358, 444, 491, 529, 533, 549, 575–76, 582
- Italy, xi, xiv, 14, 16, 25, 29–30, 32, 43–44, 47, 122, 133, 138, 180, 183, 233, 262, 272–73, 302–3, 334, 342, 355, 400, 444, 449, 534–35, 539–40, 572, 579
- Jarlsberg, xiv, 61, 225, 467, 492, 549
- jarosite, 21, 198
- John C. C. Romans, 207
- Jomon Period, 259–60, 407
- Jongerius, 28, 66, 85, 138, 145, 184, 192, 197, 304–5, 307, 322, 337, 536, 552, 579
- Juncus maritimus*, 240
- Kaupang, 21, 226, 467, 569, 578
- Kawoli, 164
- Keatley Creek, 344, 407, 547, 550
- Kilham, xiii, 47, 303, 314, 566
- King Arthur's Cave, 178
- Kirkhill Quarry, viii, 168, 187, 201, 207–8
- kitchen, 23, 146, 245, 283–84, 328, 333, 335, 347, 373, 382, 385, 394, 401, 405, 408, 447, 456, 501
- knapping, 202, 282, 379
- Knockupworth, 113
- Korea, ix, xi, xii, xviii, 32, 34, 45, 54, 135, 145–46, 157, 185, 271, 277, 339, 407, 448, 556, 583
- Kubiena, 33, 66–67, 278, 555
- Kubiena tin, 34
- La Cotte de St Brelade, xiii, 243, 262, 287
- Lake Windermere, 176–77, 179
- lakes, viii, 16, 123, 137, 183, 185
- laminated mull, xlii, 51, 113, 115, 223–24
- land management, 338, 401, 441, 542, 577
- Lankhills Special School, 241
- Las Capas, 339, 463–64, 549
- lateglacial, 185
- latrines, ix, xxii, 45, 61, 65, 146, 211–12, 257, 266–68, 317, 328–29, 333–34, 371, 373–74, 391, 406, 408, 431–32, 435, 458–59, 461, 500, 502–3, 515, 560, *See also* cess
- Lattes, 37, 342, 390, 489, 536
- LBK, xiv, 65, 403, 442–43, 448
- leaching, 82, 91, 131, 194, 337–38, 407, 420, 455, 487, 511, 515
- lead, xxiii, 49–50, 61, 241, 243–45, 268, 287, 327, 329, 362, 372, 382–83, 431, 434–36, 455, 465–67
- lead carbonate, 244, 383
- lead droplets, 244
- lead water pipes, 245
- leaf litter, 46, 51, 88
- leather, 247, 379, 394, 466
- legume testa, 265, 267
- Lejre, 29, 391
- leopard, 261
- lime, xv, 23, 26–27, 52, 85, 120, 137, 211–12, 230–31, 233, 239, 246, 268, 335, 344, 371, 379, 399, 407, 410, 491, 496, 498, 505–6, 511, 514, 553
- limestone, 272
- lion, 261
- Lithou, 44, 282, 345
- Llanmaes, 405
- loam, 24, 40, 52, 85, 128, 131, 142–43, 145–46, 167, 171, 176–77, 194, 197, 228, 236, 296, 322, 325, 335, 337–38, 344, 372, 375, 403, 410–11, 419, 442, 455, 483–84, 554
- Loch Lomond, 167, 175, 177
- Lodbjerg, 222, 226, 317, 375
- loess, xiii, 26, 28–29, 85, 126, 128–29, 156, 167, 170, 175, 179, 216, 221, 224, 226, 231, 235–36, 282, 300, 302, 314, 329–30, 344, 372, 395, 398, 413, 442, 532, 534, 554, 569, 577
- London, xiii, xv, xx, xxiv, 23, 30, 32–33, 37, 39, 45–46, 48, 52, 54, 60, 65, 84, 95, 128, 132, 137, 144, 167, 190, 208, 216, 224, 226, 228, 230, 233–35, 240, 243, 245–46, 263, 265–67, 285, 301, 317, 325, 332, 335, 344, 362, 365–66, 372–73, 379–80, 382, 389, 395, 398, 400, 408, 415, 418, 429–30, 436, 450, 454, 457–59, 461, 465–66, 468, 479, 487, 489, 492, 495–98, 500, 505, 515,

- 530, 532–39, 542–47, 549–52, 554–66, 568–75, 577, 580, 582–84
- London Guildhall, 37, 48, 65, 380, 454, 497
- long house, xiv, 56, 61, 225, 237, 239, 375, 401, 403, 405, 447, 451, 467
- loomweights, 410
- Loss-On-Ignition, xxii
- Loupian, 462
- Lundkvassberget, 228, 236
- luvisol, 125, 128, *See also* alfisol
- Luxembourg, 183, 330, 543, 552, 555
- Lyminge, xiv, 329, 379, 408, 411, 566, 580
- macrofossil, 31, 39, 48, 51, 137
- Macro-observations, 74
- Magdeburg, 61, 243, 380, 383, 399, 467, 562
- magnetic susceptibility, xvi, xxii, 14, 31–32, 37, 39–40, 47, 49, 52, 65, 87, 112, 127, 133, 138, 143, 166, 180, 189, 200, 233, 235, 239, 241, 245, 266–67, 286, 297, 300, 302–3, 322, 325, 327, 329, 332–35, 337, 346, 349, 362, 365–66, 372, 375, 382–83, 400, 402, 404, 406, 411–12, 415, 419, 421, 423–24, 431, 434–36, 442, 447, 449, 465, 478, 491–92, 502, 504–5, 530, 540, 556, 560–62, 565, 580–81
- magnetite, 14, 40, 86–87, 165–66, 236, 241
- Mägura, 395, 458
- Maiden Castle, 30, 32, 109–10, 112, 118, 259, 381, 440, 468, 558, 577
- Maiden Lane, 60, 266
- manganese, 60, 65, 86, 131, 133, 143, 188, 202, 204, 221, 261, 265, 274, 296, 300, 314, 326, 334, 380, 419, 435, 442–43
- manual counting, 94
- manuring, xiii, 45, 185, 290, 297, 310–13, 317, 322–25, 328–29, 333, 341, 411, 421, 447, 484, 498, 502–3
- Marco Gonzalez, x, xv, xvii, 27, 45–46, 53–54, 198, 233, 239, 478, 505, 514, 516, 547–48
- marine inundation, viii, xxi, 20, 30, 53, 127, 187, 189–90, 197–98, 201, 208, 284, 324, 406, 515
- marine mammals, 43, 186, 286, 380
- Masai, 354
- mass-movement, xxi, 4, 135, 170, 172, 174, 177, 272, 279, 289, 515
- mats and matting, 229, 344–45, 370, 420
- Maya, x, xv, xviii, xxii, 27, 45–46, 53–54, 187, 233, 239, 330, 478, 490, 495, 498, 505, 512–14, 516, 548, 579, 581
- Medieval, xvii, 21, 30, 40, 48–49, 61, 128, 142–45, 198, 228, 230, 243, 245–46, 267, 321–23, 328–30, 341, 344–45, 355, 362, 368, 371–72, 378, 380, 382, 386, 400, 430, 459, 467, 529, 535, 541, 544, 549–50, 557, 559–60, 570, 574, 577
- Mesolithic, viii, xiii, 20, 25, 30–31, 44, 49, 123, 130, 138, 183, 187, 200, 206, 208, 273, 282, 284, 296, 302–3, 345, 380, 389, 397, 518, 529, 532–33, 540, 548–49, 556, 558, 560, 562, 570, 575
- MFT, 23
- micrite, 260
- microfabric, 23–24, 28, 55–56, 66, 74, 81, 87, 90–91, 121, 123, 126, 128–29, 132, 147, 189, 221–22, 238, 295–96, 303, 314, 321, 326, 357, 421, 479, 486, 497, 505–6, 559
- microfacies, vii, xx, 21–24, 30, 40, 47, 53, 65, 81, 181, 281, 362, 368, 454, 464, 539
- microfossil, 45, 49, 194
- micro-FTIR (μ -FTIR), 31, 39, 54–55, 85, 237, 262, 276, 497
- microprobe, xxiii, 85, 184, 194, 262, 349, 362, 376, 382, 440, 443, 455, 468, 500
- microstratigraphy, 23, 29, 48, 137, 370–71, 383, 558, 560, 563, 565
- microstructure, 83, 92, 119, 221, 418, 581
- middening, ix, xxii, 21, 123, 186, 189, 233, 260, 277, 282–85, 297, 347, 395, 455–57, 493, 498, 500, 502–3
- Migration Period, xiv, 61, 146, 224–25, 239, 322, 378, 397, 408, 411, 424, 467
- Mission Period, 284
- moat, ix, 33, 40, 391, 461, 465–66, 489
- moder, viii, 99, 118, 120, 437
- Moel-y-gar, xvii, 348–49, 353–54, 362, 365, 491
- mollic, 324

- mollusk, 26, 43, 143, 170, 177, 194, 196, 198, 296, 303
- Monkton, 30, 46, 230, 266, 459
- monoliths, 33, 37, 49, 65, 69, 144, 266, 371
- mor, viii, 53, 99, 118–19, 122, 437
- mortar, 27, 52, 211, 231, 380, 491
- motte, 225, 229, 480, 546
- Motte of Werken, 115, 378, 398, 555
- Mouflon sheep, 247
- mouldboard plough, 321, 329
- mounds, 211, 216, 224–25, 313, 479
- mud brick, 24, 136, 211–12, 224, 230, 399, 491, 493, 545
- mud plastering, 212, 230
- mudflat, 192, 195–96
- mull, viii, 99–100, 112–13, 115, 222, 437, 514
- mummies, xiii, 263–64, 266, 268, 478, 480
- Murex, 401
- mycorrhizae, 123, 194, 428, 441
- Negev Desert, xiv, 348, 355, 358, 444
- nematode, 46, 247, 263, 265–67, 405, 458, 485
- Neolithic, xii, xiii, xiv, xvi, 26, 29–31, 37, 43–44, 46–47, 64, 100, 110, 112, 118, 126–28, 130, 133, 143, 187, 189, 200, 206, 221, 224, 229–31, 234, 237, 247, 267, 273, 282, 290, 295–96, 301–3, 308, 312–14, 330, 355, 358, 361, 368, 389, 395, 397–99, 403, 406, 440, 442–44, 446–48, 458, 468, 492, 529–30, 533–34, 537, 540, 543, 545, 550, 552–53, 555–59, 565–67, 572–79, 582
- Niederhummel, xiv, 65, 442
- nightsoil, 133, 327–28, 333, 336, 424, 458, 502
- nitrogen, 44, 46, 52, 112, 118–19, 121, 129, 258, 282, 307, 313, 317, 321, 332, 370, 495–96, 530–36, 538–40, 542–44, 548, 552–58, 562, 564–65, 567–77, 579–80, 583–84
- No 1, Poultry, 225, 344, 353, 362, 365, 381, 429–30, 456, 492
- Nordre Fevang, 429
- Northgate House, 245, 562
- Norton Farm, 184, 198, 532
- Norway, xi–xviii, 14–15, 21, 30, 34, 40, 43, 45, 48–49, 61, 113, 118, 122, 132, 135, 144, 146, 184, 198, 207, 224–26, 228–29, 236–37, 241, 285–87, 290, 297, 306, 322, 358, 368, 378, 380, 382, 395, 397–98, 403, 405, 415, 421, 424, 447, 450, 456, 459, 466, 468, 478–79, 481, 483–84, 486–87, 492, 550, 560, 574
- numerical methods, 80
- nutrient cycling, 327
- Oakley, 317, 415, 429
- occupation surfaces, xiii, 212, 228, 272, 342, 368, 390–91, 518, 546
- ochre, 228, 558
- OIL - Oblique Incident Light, xv, xx, 76, 84, 86–87, 89, 92, 96, 119, 121, 123, 128–29, 231, 235, 240, 243–44, 246, 261, 265, 300
- Old Street Hall, 336
- Olduvai, 26, 135, 168, 273
- omnivores, 212, 247
- opal, 86–87, 240, 297
- opaque minerals, 86
- orestias Lake, 207
- organic carbon, 33, 143, 296, 313, 332, 495
- organic chemistry, 31, 39
- organic matter, xii, 29, 48–49, 52–53, 64–65, 88–89, 92, 100, 110, 112, 115, 119–21, 123, 125, 128–29, 143, 145, 165, 171, 175–77, 182, 190, 192, 194–98, 201–5, 222, 230, 235–36, 247, 257, 261, 264, 266–67, 279, 287, 296, 305, 307–8, 311–13, 317, 322, 324, 326–28, 332, 335, 337–40, 353, 359, 362, 365–66, 382–83, 398, 402, 408, 411, 418–19, 424, 428, 430–32, 441, 447, 449–50, 454–55, 463–65, 480, 484, 496, 505, 514, 531, 549, 578
- Oslo Fjord, xviii, 15, 18, 21
- ostracods, 45
- Overton Down, xi, xii–xviii, 28, 45, 53, 59, 95, 100, 110, 112–13, 115, 132, 179, 187, 221, 346, 440, 487, 540
- owl, 263
- oxidation, 88, 118, 120, 131, 222, 240, 256, 267, 326, 335, 337–38, 359, 366, 378–79, 398, 463–64
- paddy soils, 45, 338, 532
- painted surface, 233

- Paisley Cave, 55
 palaeosols, viii, 32, 96, 127, 135–37, 144, 167, 174, 176–77, 277, 302, 307, 538, 544, 580
 palynology, 39, 49, 51, 81, 126, 132, 266, 322, 354, 358, 454, 497
 parasite, 46, 81, 263, 334, 502
 parasite eggs, 46, 81, 334, 502
 Parnell Way, 132
 particle size, 39, 49, 191
 pastoral nomadism, 358
 pastoralists, 211, 355, 389, 436, 444, 446
 pasture soil, xii, 437, 440, 497
 pastures, 114, 122, 347, 436–37, 439–41
 peat, xii, 16, 25, 47, 49, 88, 100, 122–23, 131, 133, 137–38, 145, 171, 180, 183–84, 188–90, 205, 208, 222, 282, 303, 321, 376–77, 441, 491, 537, 540, 542
 pedofeature
 fabric, 92
 textural, 48, 64, 91–92, 129, 145, 164, 170, 177–78, 182, 216, 223–25, 231, 279, 290, 295–97, 300–2, 307, 312–13, 315–16, 325–28, 332, 336–38, 347, 413, 415, 418–20, 424, 430–31, 435, 437, 440, 442, 458, 501, 514
 Peterborough, 132
 petrological microscopes, 74
 Pevensey Castle, 457, 459, 497, 559
 pH, 47, 49, 51–53, 120, 127, 177–78, 221, 313, 321, 327, 335, 360, 440, 495, 502, 511–12, 514
 Phoenix Wharf, 137, 317
 phosphate, xi, xiv, xxii, xxiii, 14, 30–31, 39, 44, 47–53, 60–61, 64–65, 84, 91, 112, 115, 118, 127, 129, 132–33, 138, 145, 178, 181, 200, 224–25, 228–29, 245, 256, 258, 261–63, 266–67, 274, 279, 281, 285–86, 303, 311, 313–14, 321–22, 324–25, 327–29, 333–38, 349, 353, 355, 359, 362, 365–66, 368, 370, 372, 374–75, 383, 402, 404, 406, 409–10, 412, 414–15, 418–21, 423–24, 429, 431, 434–36, 440, 443, 447–50, 455–56, 458–59, 461, 465–66, 468, 478–80, 483–87, 491, 497, 500–1, 505, 511, 514, 533, 540, 551, 575, 580
 hydroxylapatite, xxii, 53–54, 63–64, 76, 91, 248–49, 254, 256, 261, 265, 334, 349–50, 353, 384
 phosphatization, 29, 263, 289
 phosphorous, xxii, xxiii, 37, 39, 44–48, 51–52, 54, 57, 61, 64, 76, 91, 132–33, 156, 168, 175, 178, 181, 228, 240–41, 245–46, 256, 258, 260–63, 265–67, 281, 289, 311, 313, 317, 321, 324–25, 327, 329, 332–34, 336–37, 339, 347, 353, 359–62, 365–66, 372–74, 376, 382–83, 405, 407, 419, 431–32, 434–35, 440–43, 455, 459, 463, 465, 478, 482–87, 491, 497, 500–2, 505, 511–12, 529–60, 562–83
 photomicrographs, 95–96
 phytoliths, 39, 45, 87–89, 156, 194, 234, 256, 258, 265, 297, 326, 339, 366, 375, 378, 411
 pig, xv, 30, 46, 257–59, 365, 431, 436, 450, 454–57, 500, 580
 Pilgrim's School, 16, 25–26, 188, 366
 Pimperne house, xvii, 235, 349, 353, 368, 370, 375, 377, 402
 pit houses,
 283, 300, 397, 407–8, 424, 456, 458, 582
 plaggan, 312, 316, 321, 428, 448, 531
 plague, 459
 plane polarized light, xx
 plank floor, xiv, 329, 345, 378, 408, 411, 458, 480
 plant litter, 197
 planting hole, 340
 plaster, 27, 52, 85, 137, 211, 231, 233, 380, 492, 506
 plastic downpipe, 34
 plate-bande, 335
 Playa Vista, 26, 284, 547
 Pleistocene, viii–ix, xiii, xvi, xviii, 20, 24–26, 28–29, 32, 34, 44, 53–54, 83, 135–36, 138, 144, 146, 167–68, 184–85, 187–88, 198, 201, 205, 207–8, 243, 260–61, 263–64, 271–74, 277, 280, 307, 530, 532, 535, 538, 544, 551–52, 556, 558, 564–65, 573, 579, 583
 ploughing, xiv, 29, 91–92, 99, 127, 131, 144, 179, 181–83, 290, 302, 305–8, 310–17, 321, 329, 335, 375, 407, 411, 448, 484, 486, 498, 514–15

- podzol, 297, 311
- point counting, 94, 126
- pollen, xii, 24, 28, 31, 34, 37, 39, 44, 46, 49–54, 82, 89, 110, 114, 119–20, 122, 126, 130, 137, 184, 191–92, 194, 197–98, 205, 207, 221, 247, 259, 266–67, 301, 303, 312, 314, 321, 349, 353–54, 358, 362, 365, 367–68, 370–71, 373, 379, 383, 398, 406, 410, 440–41, 448–49, 451, 461, 464–65, 480, 485, 495, 498, 535, 541, 549, 562–63, 569, 571, 574, 576
- polyconcave vugh, 52, 91, 180, 201, 311
- Pompeii*, xi, 16, 233, 330, 334, 366, 400, 457, 500, 534, 545
- pond, viii, ix, xiii, 24, 26, 45, 48, 52, 60, 88, 133, 166, 169–70, 179, 183–85, 258, 274, 279, 307, 399, 449–50, 464
- Popina Borduşanı, 246, 342, 399, 446, 461, 493
- post-depositional processes, xxii, 23, 27, 29, 84, 93, 99, 134–35, 234, 278, 289, 295, 346, 383, 490, 496, 498, 515, 518
- post-glacial uplift, 21
- post-hole, 391, 402–3, 405, 488, 573
- potassium, 31, 46, 178, 226, 285, 301, 317, 334, 362, 366, 420, 455, 468, 530, 532–33, 535–36, 538, 541, 543, 545–46, 548, 551–54, 556, 558, 561, 565–71, 573–74, 576–81, 583
- Potterne, 46, 258–59, 266, 381, 456, 468, 537, 555, 558
- pozzolanic, 87, 234, 581
- Prato Mollo, 183, 303
- Presidio, 372, 379, 547
- Prittlewell, 113, 224, 441
- privy, 266
- Prosper-Mérimée Square, xv, 429, 495, 498, 500, 546
- pyrite, xi, 21, 86, 132, 198, 465–66
- pyroclastic deposits, 16
- quantitative, 59, 61, 95, 121, 179, 191, 243–44, 334, 347, 349, 376, 382, 443, 455, 502, 529, 571
- quarrying, 32, 125, 128, 228, 234, 278, 391, 394–95, 397
- quinoa, 264
- Ragnhildrød, xiii, 285, 569
- rain splash, 90, 183, 305
- rakeout, 245, 400, 406
- ranker, 100, 177–78
- raptors, 44, 263, 272
- raspberry, 285
- Raunds, xvii, xviii, 40, 47, 61, 95, 113, 143, 145, 224, 300, 406, 424, 441–43, 449, 537, 550, 559
- razed structures, 231, 234
- recording micromorphological data, viii, 93, 95
- red hill, 57
- red lead oxide, 244
- reddening, *See* rubefaction
- reference thin sections, xx, 261, 514
- reindeer, 167, 247, 436
- related distribution, 119, 123, 128–29, 222, 321, 461, 493
- chitonic, 67, 222
- enaulic, 67, 119, 222
- gefuric, 67, 222
- monic, 67, 321
- porphyric, 67, 119, 123, 128–29, 222
- rendzina, 100, 110, 112, 115, 167, 175–76, 181–82, 440, 540
- reservoir, 339, 391, 464
- rhizoliths, 87, 92
- rice, 45, 156, 246, 306, 330, 338, 399, 448, 545
- ridge-and-furrow, 330
- ripening, viii, 25, 92, 100, 138, 145–46, 169, 184–86, 197–98, 201–3, 208, 531
- River Blackwater, 198
- River Borcea, 225
- River Crouch, 190
- River Danube, xiv, 225, 399
- River Eden, 137–38
- River Frome, 145
- River Great Ouse, 321
- River Hantan, 34
- River Humber, 53, 406
- River Ivel, 321
- River Lågen, 144, 146
- River Santa Cruz, 464
- River Severn, 53, 198, 201

- River Thames, xi, xiv, 137, 187, 189, 243, 344, 381, 395, 415, 461, 465
- River Walbrook, 365
- River Waveney, 498
- River Wye, 178
- roads, 216, 267, 277, 391, 405, 412–13, 415, 420–21, 429–30, 435–36, 456, 498, 518
- robber trench, xiii, 223, 395
- rock shelters, 211, 237, 355, 358, 360–61, 389, 443–44, 530
- Romania, 37, 46, 61, 62, 136, 214, 231, 246, 267, 368, 390, 392–96, 419, 459, 477, 492, 494
- Romans, 10, 12, 17, 29, 30, 37, 47, 50, 57, 61, 63, 84–85, 95, 128–30, 136–37, 139, 142–44, 187, 215–16, 220, 225, 228, 230–31, 233–37, 239–46, 252, 258, 263, 267, 296, 300, 304, 309, 313, 315, 320–21, 323, 325–326, 329–30, 371–72, 380–83, 389, 396, 398–400, 406, 409, 413–16, 419–21, 430–32, 435, 449, 450, 455–59, 463, 467, 470, 477, 479, 491–94, 505, 518
- root pseudomorphs, 26, 158, 172, 175, 279, 496
- routeways, 389, 406, 415, 418, 489
- rubefication, 57, 172, 234, 236, 240, 264, 492
- saline, 186
- salt marsh, 24, 44–45, 53, 186–87, 192, 194, 197, 208, 324–25, 512, 534
- salt working, xxi, 32, 46, 53, 57, 61, 187, 198, 212, 233, 237, 239–40, 243, 394
- sampling, 31–32, 34, 37, 48, 51, 69, 109, 151, 156, 163–65, 190, 191, 277–79, 311, 347, 353, 362, 410, 415, 425, 485, 518
- Sawston, 379, 411
- Saxon, xi, xiv, xv, 30, 60–61, 128, 142–44, 180, 224, 245, 258–59, 265–67, 317, 328–29, 366, 373, 378, 381, 386, 391, 395, 400, 408–11, 415, 430–31, 435, 441, 449–50, 455, 457–59, 461–62, 493, 497–98, 544–45, 557, 561, 563, 580, 582
- scat, 177, 203, 205, 261, 280, 339, *See also coprolites*
- sea level, 132, 187, 189, 195
- sea walls, 191, 194
- sea weed, 53
- seasonal flooding, 185
- sedge, 44, 51, 114, 188, 221, 229, 491
- sedimentary environments, xvi, 4, 5t. 1.1, 18, 22, 168
- fluvial, 4
- seeds, 43, 51, 88, 110, 115, 137, 246, 154, 257, 258, 264–65, 267, 316, 321, 364, 366, 467
- SEM/EDS, xvi, xx, xxiii, 43, 54, 61, 87, 92, 95, 244, 272, 287, 382, 420, 459, 463, 483, 511
- serpentinite, 180
- settlement morphology, 212
- SFBs (sunken feature buildings), 379, 407
- Sharpstone Hill, xvii, 415, 419–20, 566
- Shaugh Moor, 122, 553
- sheep, xiii, 115, 122, 247, 313–14, 321, 347–48, 355, 357–58, 365, 410, 429–30, 437, 441, 444, 446, 457, 569, 572
- shell, 87, 246
- shellfish, 186, 532
- Shiloh Mound, 225, 398
- ship wreck, 21, 198
- Short Dykes, xii, 123, 441
- Sibudu Cave, 30, 229, 272, 548
- siderite, 132
- site formation processes, xvii, xx, 23, 27–28, 40, 65, 69, 90, 129, 135, 164, 204, 208, 277–78, 280, 339, 442, 478, 495, 518, 531, 567
- site transformation, 27, 212
- slags, 86, 225, 241, 243, 381, 394, 431, 435, 467
- slaking, 90, 168, 170–72, 182, 192, 226, 230–31, 284, 306–7, 325, 337, 339, 347–48, 379, 468
- slash-and-burn, xiii, 120, 122, 290, 295, 297, 301, 311, 421
- sleeping, 347
- slug plates, 85, 87–88, 174–76, 182, 184, 334
- small mammal, 171, 203, 262–63, 272, 405, 530
- SMT, 24
- sodium, 57, 59, 127, 178, 194, 200, 204, 240
- sodium carbonate, 195, 197
- Södra Sallerup, xvii, 421

- soil classification, 27, 66, 536, 542
- entisols, 100
- pelo-alluvial gley soils, 324
- podzols, 29, 87, 109, 118, 120, 122–23, 125–27, 130–31, 207, 221, 290, 297, 312, 321, 479, 539, 542, 544, 571
- soil dispersion, 200, 204, 325
- Soil Forming Factors, 100
- soil horizons
 - Ap horizon, 121, 307–8, 311, 321, 324, 336, 442
 - A1h horizon, 82, 112, 316
 - A2 horizon, 82, 121, 226, 302, 311, 321, 397
 - Ah horizon, 119–21, 123, 125, 190, 197, 311, 561
 - BCg horizon, 395
 - Bs horizon, 122, 127, 311, 321
 - Bt horizon, 40, 82, 94, 127–29, 170, 216, 224, 296, 325, 335, 395, 397, 437, 442
 - Bt horizon, 226
 - Ctk horizon, 216, 224, 226
- soil instability, 339
- soil micromorphology, xix
- soil science, vii, 4, 7, 30–31, 38–39, 47, 60, 65, 304, 346, 557, 564
- soil series, 23, 145, 176, 187, 192, 324, 395
- Soil Survey of England and Wales, 53, 84, 187, 544, 552, 574
- soil-sediment, viii, xxi, 135, 185
- soliflual, 167, 169, 172, 175
- South Africa, 18, 229, 272, 533, 547–48
- Southwark, xv, 39, 137, 228, 240, 244, 372, 395, 399–400, 457, 479, 491, 495, 500, 539, 558
- Spain, xix, 44, 48, 262, 355, 444, 533, 559, 566
- specific conductance, 45, 53–54, 192, 194, 196–98, 239, 325, 511, 514
- specific gravity, 14, 86, 166
- speleothem, 16
- Sphagnum, 44, 123
- Spitalfields Hospital, 226, 245, 267, 345, 400
- spodic B, 119
- Spodosols, 118, 122, 130, 311, 317
- sponge spicules, 46, 233, 239
- stabling, ix, xiv, xvii, 29–30, 32, 43–45, 47, 49–51, 53–54, 84, 234, 237, 257, 317, 345, 347, 349, 353–55, 357–58, 360–62, 365–66, 368, 373, 379, 385, 389, 391, 401, 403, 405–6, 429, 443–44, 454, 456, 491, 493, 560
- stagnosols, 113
- Stainton West, Carlisle, 30, 44, 138
- Stanford, xi, xiv–xv, xviii, xxi, 48, 53, 57, 61, 190, 192, 198, 204, 237, 239–40, 243, 344, 381–82, 406, 467, 478, 533, 562, 580
- Stansted Airport, 127, 132
- Stanwell Cursus, 301, 406, 442
- Staple Gardens, 373, 562
- Star Carr, 125, 183, 282
- statistical analyses, 48, 61, 329
- stem pseudomorphs, 240, 381
- stocking, 64, 358, 406, 437, 457, 517
- storm surge, 186, 195
- Strathallan, 290, 304, 312, 531, 552, 573
- Stratton, 262, 410–12, 448–49, 451, 461
- straw, 88, 212, 229–30, 235, 239, 328, 344, 353, 365–66, 368, 381, 491–92
- Strawberry Hill, 88, 112, 182, 330
- structural stability, 302, 310, 340
- structure, 83, 500–1, 503, 511
 - microstructure, 83
- Sutton Gault, 189
- Suvero, 180
- Svägertorp, 410, 412
- Sweden, xiii, xvii, 21, 29, 47, 113, 118, 120, 122, 131, 226, 230, 241, 259, 297, 308, 311, 375, 391, 410, 415, 421, 435–36, 447, 450, 556, 565, 581
- Switzerland, 3, 231, 234, 247, 358, 399, 447, 552, 555, 572–73, 580
- symmetrical plough, 329
- tanks, 399
- Tarquimpol, xv, 403, 430, 498, 500–1, 503, 505
- teeth, 33, 43–44
- Tel-Aviv Zoo, 30, 247, 259–61, 347
- tells, xiii, xviii, 37, 61, 211, 216, 224–25, 231, 246, 342, 344, 354, 368, 370, 377, 391, 398, 461, 468, 491, 493–94, 567, 574, 579
- temperate, viii, 99, 134, 175, 569, 574
- Templar, 262, 375, 395, 448
- Tempsford, 410, 562
- Terminal 5, 301, 406, 418–19, 442, 450, 556, 561

- termites, 82, 514
- terra rossa, 231, 400
- thatch, 234, 377, 381, 405, 491, 493
- The Fens, 125, 142, 186, 189
- The Forchtenberg-Experiment, 29, 576
- The Stumble, 192, 200, 206, 583
- Three Ways Wharf, viii, xiii, 25, 186–87, 208, 273, 548, 556
- tiger, 261
- till, 207, 216, 226, 228, 230, 336, 371, 375, 556, 581
- tillage, 28, 303, 305, 307–8, 322, 325, 339, 538, 541, 554
- tin, 14, 30, 61, 86, 243–45, 268, 287, 382–83, 394, 467, 568
- Tønsberg, xiv, 229, 285, 378, 569
- Tower of London, 40, 65
- trackways, 91, 136, 346, 386, 406, 412, 415, 418–19, 429, 431, 436, 450
- trampling, 21, 82, 91, 114, 127, 183, 190, 229, 279, 282, 284, 306–7, 312–13, 344–46, 355, 373, 379, 389, 404, 418–19, 431, 435, 440–41, 443, 449, 532, 580, 582
 - human, 69, 355
- travertine, 16, 25–26
- tree hollow, 316
- tree leaf buds, 30, 44, 88, 138, 461
- tree-holes, 40, 47
- tree-shredding, 285, 295
- tree-throw, xvii, 31, 47, 99, 128, 143, 226, 283, 295–96, 300–1, 407
- tridymite, 86
- tufa, 14, 16, 25–26, 138, 156, 168, 187, 216, 233–34, 274, 334, 492
- turf, xii, 37, 47, 51, 56, 100, 112–15, 120, 122–23, 125–26, 131, 184, 201, 212, 216, 221–25, 234, 284, 297, 313–14, 316, 321, 375–77, 395, 397, 406, 408, 412, 440, 505, 544, 568
- Turing College, 461
- Turkey, 37, 489, 577
- twigwood, xiii, 43, 285, 355, 357, 376, 572
- Unnerstvedt, xiii, 285, 569
- uplift, 20, 40, 120, 311
- Upper Palaeolithic, 187
- Uscio, 32, 43, 47, 302, 565
- Uzzo Cave, 272, 380
- Vallemyrene, 322
- Vanguard Cave, 259–60, 262, 272, 400, 547, 564
- Ventnor, 174, 176–77, 571
- Viking, 34, 37, 46, 265–66, 447, 450, 483, 486
- Vine St, 455
- Vislario, 43
- viticulture, 333, 502–3
- vivianite, 51, 115, 132, 198, 225, 228, 334, 337, 410, 415, 449, 458, 497
- voids, 52, 57, 83–84, 90, 92, 94, 129, 132, 145, 147, 158, 172, 174, 176, 183, 197, 201, 226, 229–30, 259–60, 282, 306–7, 311, 334, 340, 347, 418, 429, 459, 497, 569
- chambers, 84, 486
- channels, 83–84, 91, 121, 123, 145, 156, 168, 170, 175, 203, 205, 314, 321, 338, 347, 459, 497
- coatings, 64, 90–91, 119, 129–30, 145, 182, 188, 192, 201, 204, 216, 230, 282, 285, 300–1, 307, 314–16, 321, 324–25, 334, 336, 339, 345, 397, 418, 437, 440, 442, 501, 514
- packing voids, 83–84, 145, 340
- vesicles, 91, 170, 262, 306, 339, 418
- vughs, 83–84, 91, 145, 170, 172, 175, 180, 203, 296, 300, 303, 339, 418
- volcanic ash, xi, xxiv, 16, 334–35
- volcanic glass, 86
- Wales, xii, xiii, 44, 122, 198, 205, 397, 405, 441, 447, 536, 539, 543–44, 551–52, 571–72, 574
- Wallasea Island, viii, xiii, xvi, 30, 34, 44–45, 53, 144, 187, 189–90, 197–98, 201–2, 204, 208, 322–23, 559
- walls, 216, 222
- Wang, 442
- Ware, xiv, 415, 420
- Wareham, xii, xviii, 28, 53, 59, 95, 118, 120–21, 125, 130, 187, 221, 346, 543, 551, 561
- Warren Villas, 317
- waste disposal, *See also* cess, latrines, middening, *See* middening
- water table, 203
- waterholes, 184, 406, 418, 449–50
- waterlogging, 82, 91–92, 123, 127, 221, 223, 341, 372, 379, 382, 395, 398, 419–20, 437, 466, 486, *See also* gleying
- wattle, 365, 379, 398, 462, 466, 491

600 INDEX

- weathering, xxi, 23, 25, 27, 29, 82, 100, 120, 145, 170, 172, 202–3, 208, 212, 231, 234, 244, 261–62, 279, 284, 307, 311, 335, 340, 361, 380, 382, 391, 411, 421, 436, 443, 447, 458, 464, 483, 485–86, 492, 503, 506, 516 wells, ix, xxii, 184, 386, 391, 410–11, 441, 449, 461, 466 Werken, 132, 225, 229, 546 West Heath, 47, 120, 126, 130, 222, 542 West Heslerton, 126, 131, 259, 386, 408, 410–12, 449, 457, 462, 492, 563, 571, 580 West Stow Anglo-Saxon Village, xv, 30, 258, 378, 410, 450, 561 Westbury-sub-Mendip, 25, 29, 32, 263, 272, 530 Westhampnett, 25–26, 177, 530, 559 wheat, 324 wheel rut, 421 wheel wash, 414, 418, 435 White Horse Stone, xiv, xvi, 167, 174–77, 181, 403 Whitefriars, xiv, xviii, 128, 267, 322, 325–26, 328, 353, 371, 395, 408–9, 430–31, 435, 450, 455, 493 Whittington Ave, xiii, 216, 332, 536 wild boar, 257, 347, 450 wild fire, 146, 185, 206–7 Winchester, 266 Windmill Hill, 110, 112, 118, 399, 558, 582 wood charcoal, 43, 49, 205, 207 wood working, 247, 357, 365, 373, 379, 466 woodland, xiii, xv, 20, 25, 29, 49, 53, 88, 118–22, 126–27, 132, 138, 181, 183, 203, 206, 290, 295–97, 302–3, 305, 307, 310–11, 314, 316, 322, 326, 357, 382, 386, 420, 437, 440, 461, 514, 539, 542, 549, 570 woody browse, 30, 237, 247, 257, 322, 354, 358 wüstite, 241 XRD, xi, 31, 39, 54, 81, 87, 164, 349 XRF, 31, 39, 54, 56, 59, 81, 237, 239, 241, 512 Zhoukoudian, 55 zinc, xiii, xxiii, 43, 49, 57, 61, 240, 243, 245, 262, 267, 287, 289, 327, 329, 380, 431, 434, 436, 455, 466