

Subject Index

A

Acatita Formation 306
 agglutinated foraminifers 32, 34, 35, 36, 42, 81, 82, 84, 89, 232, 243, 244, 245, 248, 251, 304
 Albian viii, ix, xi, xii, 1, 4, 7, 8, 11, 12, 13, 27, 28, 30, 41, 55, 58, 60, 61, 62, 63, 69, 70, 71, 89, 90, 91, 95, 96, 101, 102, 104, 106, 119, 124, 134, 143, 147, 148, 149, 152, 155, 156, 157, 162, 166, 171, 172, 176, 177, 179, 180, 187, 188, 189, 190, 191, 198, 199, 200, 201, 202, 204, 205, 206, 207, 208, 209, 212, 213, 214, 215, 217, 218, 219, 220, 221, 230, 248, 269, 277, 278, 283, 304, 306, 307, 309, 310, 311, 312, 313, 314, 315, 316, 317, 320, 362, 369
 Albian-Cenomanian boundary 105, 153, 157, 306, 316, 317, 320
 Aldama Platform 8, 11, 12
 allostratigraphic units 230, 270, 271, 283
 ammonites xiii, 7, 8, 36, 43, 75, 76, 84, 86, 87, 95, 105, 115, 143, 151, 152, 154, 188, 227, 230, 246, 248, 268, 269, 277, 281, 282, 284, 287, 289, 291, 295, 306, 307, 308, 310, 311, 315, 316, 317, 318, 320, 338, 339, 346, 348, 349, 356, 357, 361, 363, 369, 370
 anaerobic biofacies 44
 Anapra Formation 105, 149, 152, 153, 166
 Angiosperm pollen 311
 ankerite 355, 356, 361, 370
 Appalachians 283
 Aptian viii, xi, xii, 1, 2, 3, 4, 7, 8, 12, 13, 14, 15, 16, 18, 19, 20, 21, 30, 62, 72, 101, 104, 119, 133, 134, 143, 149, 155, 162, 179, 187, 188, 189, 190, 191, 198, 199, 200, 201, 202, 204, 205, 206, 207, 208, 209, 212, 213, 214, 215, 217, 218, 219, 220, 221, 279, 283, 284, 304, 306, 309, 310, 315, 316
 Arizona xi, xii, 1, 2, 3, 4, 7, 13, 14, 15, 18, 41, 89, 102, 187, 188
 Atlantic coast 2, 4, 19
 Aurora formation 306, 338

B

bar-slope accretionary bedding 236
 Basco-Cantabrian Basin 283
 Basin and Range Province 28
 Bay of Biscay 283, 304
 Bee Cave Marl Member 227, 233, 236, 239, 240, 243, 244, 245, 246, 267, 271
 Belton Shoal 269
 Benbrook Limestone Member 257, 270, 282, 289, 290, 308, 310, 312, 313, 314, 316, 320, 329, 331, 334, 335
 Bend Arch 228
 Benevides Formation 12, 73, 139, 307
 Benigno 12, 148
 benthic foraminifers 35, 36, 42, 87, 89, 188, 189, 249, 291, 295, 298, 302, 307, 309, 335, 348
 Big Bend National Park xi, 15, 27, 28, 29, 30, 31, 32, 36, 39, 44, 49, 50, 53, 54, 55, 57, 58, 59, 61, 62, 63, 154, 351
 biostratigraphy xiii, 277, 306, 307
 Bisbee Basin ix, xi, xiv, 2, 4, 7, 12, 13, 16, 20, 187, 188
 Bisbee Group 187, 188, 189, 192, 197
 bivalves xii, 34, 36, 42, 52, 53, 69, 75, 76, 77, 78, 81, 82, 84, 86, 87, 89, 90, 94, 95, 101, 108, 109, 111, 115, 116, 117, 119, 143, 151, 153, 154, 188, 248, 277, 287, 291, 295, 298, 315, 318, 339, 346, 349, 356, 357, 362
 Bluff Mesa Formation 105, 110, 121
 Boquillas Formation 105, 149, 154
 Boracho Formation 105
 brachiopod 36, 78, 82, 95, 151, 153
 bryozoa 152
 Buda Limestone xi, xiii, 27, 28, 36, 43, 44, 58, 105, 147, 149, 154, 156, 157, 163, 169, 170, 180, 280, 282, 284, 285, 290, 299, 301, 302, 303, 304, 308, 320, 328, 332, 335, 337, 338, 339, 340, 341, 342, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370
 Bull Creek Limestone Member 227, 232, 233, 241, 243

A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

C

- calcareous algae 34, 37, 40, 46, 69, 75, 77, 82, 84, 86, 87, 88, 89, 95, 268, 289, 369
- calcispheres 35, 36, 37, 42, 43, 62, 291, 295, 349, 357, 358, 363, 369
- caliche 108, 227, 233, 239, 240, 265, 266, 270, 271, 285, 346
- Campagrande Formation 71, 104, 105, 106, 107, 108, 110, 111, 112, 115, 117, 119, 120, 132, 134
- caprinid mounds 261, 269, 270
- Caprinid rudists 35, 41, 42, 85, 86, 88, 95, 117, 256, 261, 266, 269, 349
- caprinid/radiolitid buildups 256
- caprotinids 109, 111, 261
- carbon isotope 360
- carbonate ramp xi, 53, 55, 69, 89, 92, 94, 95, 295, 337, 370
- Caribbean Province 147
- Carta Valley fault zone 341
- Caucasus 134, 157, 171, 176, 179, 188, 191, 206, 214
- Cedar Park Limestone Member 227, 230, 233, 243, 244, 245, 246, 247, 267, 271
- Cenomanian viii, xi, xii, xiii, xvi, 27, 28, 29, 30, 36, 41, 58, 60, 63, 89, 102, 105, 121, 133, 134, 147, 149, 153, 154, 155, 157, 163, 166, 169, 170, 171, 177, 179, 180, 200, 205, 207, 209, 214, 217, 218, 219, 220, 221, 277, 278, 280, 284, 285, 291, 302, 308, 309, 310, 311, 316, 317, 320, 337, 339, 342, 360, 362, 363, 369
- Central Texas Platform ix, 228, 230, 267, 268, 270, 271, 272, 290, 295
- Cerro de Cristo Rey xii, 71, 147, 148, 149, 150, 151, 152, 153, 154, 156, 157, 159, 160, 162, 163, 164, 166, 169, 171, 172, 174, 176, 177, 180, 188
- Cerro de Muleros 148, 174, 177
- Cerro de Oro 162, 187, 188, 189, 190, 191, 192, 193, 195, 197, 198, 199, 200, 204, 206, 207, 208, 209, 212, 213, 217, 218, 220
- charophytes 75, 76, 78, 82, 84, 86, 108
- Chihuahua xii, xiii, 1, 3, 4, 7, 8, 10, 71, 72, 96, 105, 139, 147, 148, 149, 150, 159, 337, 338, 339, 340, 342, 350, 351, 359, 361, 369
- Chihuahua Trough ix, xi, 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 16, 18, 20, 28, 69, 71, 72, 90, 95, 102, 103, 187, 188, 342
- Chihuahua–Bisbee trough xii, 147, 154
- Chili 157
- chlorite 355
- Cintura Formation 187, 188, 191
- Cliff Sandstone Member 111, 116
- cluster analysis 27, 38
- Coahuila xiii, 2, 3, 4, 8, 14, 16, 28, 30, 53, 58, 306, 337, 338, 339, 340, 348, 350, 351, 353, 354, 356, 357, 358, 363, 365, 366, 367, 370
- Coahuila platform 53, 306
- Coahuila sequence 306
- Coahuila Series 16, 17, 21, 279
- coastal upwelling 49, 62
- Cold Spring Limestone Member 227, 230, 246, 249, 250, 251, 253, 254, 256
- colonial corals xii, 147, 157, 190, 256, 269
- Comanche Peak Formation xii, 72, 124, 126, 128, 135, 137, 138, 151, 227, 228, 230, 246, 249, 250, 251, 252, 253, 254, 255, 257, 258, 259, 260, 261, 262, 263, 265, 267, 269, 270, 282, 307, 316, 329, 334
- Comanche Shelf viii, ix, xi, 102, 269, 278, 290
- Comanchean Series viii, xii, 17, 27, 147, 149, 154, 230, 277, 279, 280, 283, 284, 285, 302, 306, 307, 315, 320, 328, 335
- Concho Arch 228
- coral heads 266, 269
- corals viii, xii, 35, 75, 77, 82, 86, 87, 108, 147, 148, 151, 153, 154, 157, 187, 188, 189, 190, 191, 192, 197, 198, 256, 339
- Cow Creek Limestone 16, 17, 269
- Cox Sandstone xi, 11, 69, 71, 72, 73, 74, 79, 80, 81, 92, 95, 105, 107, 111, 112, 113, 116, 119, 120, 121, 130, 139, 142, 151, 267
- Cristo Rey 105, 148, 149, 151, 154, 156, 179
- Cuchillo Formation 4, 7, 8, 10, 12, 148, 149
- Cuesta del Cura Formation 338
- Cupidito 306
- Cupido Formation 7, 8, 9, 28, 279, 306

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

D

Del Carmen Formation xi, 27, 30, 33, 34, 35, 40, 41, 53, 55, 57, 61
 Del Norte Formation 105, 149, 151, 152, 156, 157, 163, 165, 166, 171, 172, 173, 176, 178
 Del Rio Formation xi, 27, 29, 33, 35, 36, 38, 43, 53, 58, 59, 105, 153, 154, 340, 341, 342, 358
 Denton Formation 152, 153, 282, 290, 292, 297, 298, 307, 309, 315, 328, 329, 331, 335
 depositional cycles xiii, 91, 277, 278, 280, 284, 285, 296, 306, 320, 360
 depositional episode 283
 depositional sequence viii, xi, xii, xiii, 53, 228, 265, 271, 280, 283, 302, 361
 Devil Ridge thrust xi, 103, 105, 106, 110
 Diablo Platform 5, 7, 8, 11, 69, 72, 90, 102, 103, 342
 Diablo Shelf xi, 102, 103, 104, 105, 106, 111, 112, 116
 dinoflagellates 153, 154, 287, 311, 315, 317, 335
 dolomite 15, 16, 227, 230, 232, 234, 253, 257, 260, 261, 263, 264, 265, 266, 269, 270, 295, 355, 356, 361, 370
 drowning events 55, 304
 Duck Creek Formation 151, 152, 253, 282, 290, 291, 292, 293, 295, 297, 306, 307, 309, 315, 329, 331, 335
 dysaerobic biofacies 53

E

Eagle Mountain Member 240
 Eagle Mountains 95, 344, 350, 351
 Eagle Mountains Sandstone 345, 346, 347, 358, 360, 361
 East Texas Basin ix, 3, 15, 17, 18, 228, 230, 248, 267, 269, 271, 272, 278, 283, 290, 302, 340
 echinoderm 35, 36, 42, 75, 77, 78, 81, 82, 84, 86, 267, 298, 348, 349, 354, 355, 363, 370
 echinoids 34, 53, 69, 87, 108, 115, 116, 117, 119, 143, 151, 152, 153, 154, 246, 248, 268, 269, 287, 291, 295, 356, 369
 Edwards Formation xii, 160, 227, 228, 230,

253, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 269, 270, 272, 282

El Abra Formation 117
 embayment 15, 19, 28, 239, 272, 340, 350
 England 157, 171, 308, 315
 Eocene 18, 103, 148, 154
 Eunerinea-Plesioptyxis Assemblage 120
 eustacy 304
 eustatic sea-level change 270, 271
 exogyrids 151, 248, 249

F

feldspar crystals 354
 Finlay 71, 92, 95, 103, 106, 139
 Finlay Formation xi, 12, 69, 70, 71, 72, 73, 74, 80, 81, 83, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 99, 105, 111, 113, 114, 116, 117, 119, 121, 130, 142, 147, 148, 149, 151, 156, 157, 172, 173
 First-Order Cycles 284
 flaser bedding 38, 86, 112
 Florida Bay 90
 Fort Worth Limestone 126, 152, 282, 290, 292, 295, 297, 306, 307, 309, 310, 315, 318, 329, 331, 335
 France xiii, 157, 166, 171, 200, 204, 205, 206, 207, 212, 213, 214, 217, 219, 220, 277, 302, 304, 309, 316, 320
 Franklin Mountains 148
 Fredericksburg 105, 124, 135, 137, 227, 228, 229, 230, 231, 233, 246, 253, 266, 267, 268, 269, 270, 271, 272, 285, 291, 306, 312, 313, 314, 318, 320, 329, 330
 Fredericksburg Division 230, 280, 329
 Fredericksburg Group viii, xi, xii, 28, 58, 63, 71, 72, 89, 90, 101, 104, 125, 126, 132, 149, 151, 163, 227, 228, 229, 230, 231, 232, 233, 246, 260, 271, 272, 277, 280, 282, 284, 285, 287, 294, 304, 307, 309, 310, 312, 313, 314, 319, 320, 329, 330

G

gastropods viii, xii, 34, 35, 36, 37, 42, 51, 53, 69, 75, 76, 77, 78, 79, 81, 82, 84, 86, 87, 90,

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

- 95, 101, 108, 109, 112, 115, 116, 117, 119, 120, 121, 122, 125, 143, 151, 152, 153, 154, 248, 287, 295, 298, 346, 356
- genetic depositional cycles 283, 284
- Georges Creek Member 234
- Georgetown Formation 227, 228, 260, 266, 290, 295, 298, 307, 339
- Georgia 19, 157, 171, 176, 179, 188, 199, 200, 214, 218, 219, 220
- glauconite 243, 256, 267, 298, 354
- Glen Rose Formation xi, 7, 27, 28, 30, 32, 33, 34, 38, 39, 40, 42, 44, 47, 48, 50, 53, 55, 56, 58, 60, 61, 128, 134, 136, 138, 160, 180, 213, 227, 229, 231, 232, 233, 234, 236, 238, 239, 241, 246, 268, 271, 280, 282, 285, 286, 306, 307, 309, 310, 316, 318, 329, 330, 331, 335
- Goodland Formation 72, 124, 126, 137, 151, 162, 163, 227, 249, 251, 257, 268, 270, 282, 287, 288, 289, 291, 293, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 320, 329, 331, 333, 334
- graphic correlation xiii, 277, 278, 284, 304, 305, 316, 318, 319, 320
- Grayson Formation 105, 153, 154, 280, 282, 290, 299, 300, 301, 302, 303, 304, 308, 309, 310, 311, 315, 317, 320, 328, 335, 339, 360
- Greece 157, 188, 191, 199, 205, 206, 209, 213, 214, 217, 218, 220, 221
- gryphaeids 36, 109, 111, 227, 244, 246, 249, 256, 268, 291, 295
- guild structure analysis 51
- Gulf of Mexico iii, ix, 1, 4, 17, 27, 30, 60, 63, 89, 103, 147, 187, 269
- Gulfian Series 30, 149, 154, 280, 285, 359
-
- H**
- Hammett Formation 16, 17, 284
- hardground 85, 87, 90, 92, 115, 227, 228, 231, 236, 239, 243, 244, 245, 246, 247, 251, 253, 254, 261, 268, 269, 270, 271, 284, 291, 316, 320
- Helderberg Group 355
- Hell-to-Finish 1, 2, 3, 7, 9, 11, 12, 13
- high-frequency sequences 91, 306
- highstand systems tract xiii, 271, 272, 282, 304, 337, 361
- hopane concentration 47
- Hosston 1, 2, 3, 14, 15, 16, 17, 18, 19, 20, 21
- Hudspeth County xi, 69, 70, 72, 99, 107, 127, 151, 337, 338, 342, 346, 351, 359, 363
-
- I**
- illite 233, 355
- Indio Mountains 8, 11, 90, 95, 96, 354
- inoceramids 154, 315, 362
- isoprenoid 47
-
- K**
- kaolinite 233, 249, 355
- kerogens 47
- Keys Valley Marl Member 227, 230, 246, 247, 248, 249, 251, 267, 268, 269, 270, 282
- Kiamichi Shale 123, 124, 151, 163, 164, 228, 229, 253, 257, 266, 282, 289, 290, 291, 292, 293, 307, 309, 310, 311, 315, 320, 329, 331, 335
- Kiowa 123, 152
- Kirschberg Gypsum 261, 270
-
- L**
- La Casita Formation 4
- La Peña 7, 306
- Lagrima Formation 148, 149
- Lake Merritt Member 234, 236
- Laramide orogenic event 103, 148, 342
- Las Uvas Sandstone 306
- Las Vigas Formation 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, 149
- Lechuguilla Member xiii, 337, 346, 347, 348, 357, 360, 361, 363, 369
- Levinson Member 105
- Llano Uplift 15, 228
- Los Tanques Formation 189
- Love Station Member xiii, 337, 346, 356, 357, 360, 361, 363, 369
- Lower Finlay Member 151
- lowstand systems tract 361

M

Madagascar 157, 171, 172, 177
 Main Street Limestone xiii, 153, 277, 282, 290, 299, 300, 301, 302, 306, 308, 309, 310, 311, 315, 317, 320, 328, 332, 335
 Maness Shale 302, 304, 305, 340
 Marys Creek Marl Member 227, 249, 251, 268, 282, 287, 288, 289, 290, 308, 310, 311, 312, 313, 314, 316, 320, 329, 331, 334, 335
 maximum flooding 56, 92, 94, 95, 281, 304
 Maxon Sandstone 55, 267
 McGuire Ranch Member 111, 115, 116
 Mesilla Valley Shale 105, 152, 153, 156, 157, 160, 161, 164, 165, 166, 168, 169, 170, 177, 178
 Mexican geosyncline 369
 Mexico iii, viii, ix, xii, 4, 14, 15, 19, 27, 28, 29, 30, 41, 89, 102, 117, 139, 147, 162, 187, 188, 189, 199, 201, 204, 205, 206, 212, 214, 215, 217, 220, 221, 257, 268, 278, 306, 309, 337, 338, 339, 340, 342, 350, 351, 353, 354, 357, 358, 361, 362, 363, 365, 366, 367, 369, 370
 Middle Ordovician 283
 Missisauga Formation 1, 2, 3, 19, 20
 Mississippi Embayment 2, 16, 19
 Moffatt Mound 227, 253, 257, 260, 261, 266, 267, 268, 269, 270
 monopleurids 35, 41, 42, 60
 Morita Formation 1, 2, 3, 7, 13, 14, 187, 188, 191
 Muleros Andesite 148, 152, 154
 Muleros Formation 105, 152, 156, 157, 164, 166, 176
 Mural Formation xii, 7, 13, 41, 42, 90, 187, 188, 189, 190, 191, 192, 193, 195, 197, 198, 199, 200, 201, 202, 204, 205, 206, 207, 208, 209, 212, 213, 214, 215, 217, 218, 219, 220, 221

N

Nahr Umr Formation 284
 n-alkane concentrations 47
 nannofossils iii, xiii, 277, 287, 289, 307, 310, 317, 335

Navarrete Formation 4, 5, 9, 10
 Neocomian 1, 2, 3, 4, 8, 12, 14, 15, 19, 20, 89, 220
 New Mexico ix, xii, xiv, 2, 3, 4, 7, 11, 12, 13, 16, 147, 148, 149, 150, 151, 152, 154, 157, 159, 160, 162, 163, 164, 166, 169, 171, 172, 174, 177, 179, 180, 187, 188, 267, 315, 340
 Nova Scotia xi, 1, 3, 19, 20

O

Ocampo 28
 Ogles Limestone Member 227, 246, 249, 251, 252, 254
 Oman 157, 176, 177, 278, 284, 285
 oncolite packstone 256
 oolitic grainstones 32, 42
 open-marine facies 362, 363
 open-shelf environment 105, 361
 ophiuroids 251
 organic build-ups 42
 organic matter content 44, 61
 organic matter maturity 50
 organic molecules 47
 ostracode 307
 Ouachita Mountains 267
 oxygen-isotope 360
 oysters 34, 42, 75, 76, 77, 78, 79, 81, 82, 84, 86, 88, 89, 90, 94, 95, 108, 109, 111, 112, 115, 119, 239, 240, 241, 243, 256, 266, 269, 287, 299, 315, 318, 329, 339

P

paleoclimate modeling 269
 paleoproductivity xi, 27, 46, 49
 paleosol 240, 241, 243
 Paluxy Sandstone xii, 72, 139, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 246, 267, 270, 271, 272, 282, 285, 286, 287, 290, 310, 316, 318, 320, 330, 331, 335
 Paluxy strandplain facies 267
 palynomorphs xiii, 152, 153, 277, 307, 311, 315
 Pancake Member 227, 230, 251, 253, 255, 256,

A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z

- 257, 258, 260, 261, 263, 264, 270
 parasequences 230, 233, 260, 271
 Patula Arkose 2, 3, 14
 Pawpaw Formation 153, 169, 282, 290, 299,
 300, 306, 308, 309, 310, 311, 312, 313, 314,
 328, 332, 335
 Pearsall Formation 17, 279, 304
 pelagic carbonate 92
 peninsulas 28, 30
 Pepper Shale 280, 320
 Peruvilla Assemblage 120
 phosphate 43, 45, 49, 256, 268
 phytane 47, 50, 62
 Pictograph Member 111, 112
 planktic foraminifers 267, 268, 289, 290, 291,
 295, 298, 299, 302, 304, 307, 309, 316, 317,
 320, 335
 Plesioptyxis geminata-Nerinella-Pseudonerin-
 ea Assemblage 121
 Plesioptyxis-Tylostoma Assemblage 119
 Polyptyxis Assemblage 117
 primary productivity 49
 principal component analysis 36, 37
 pristane 47, 50, 62
 Pseudonerinea-Peruvilla Assemblage 120
 pterotrigonids 153
 Purgatoire Formation 124, 152
-
- Q**
 Quarry Limestone 298
 quartz 5, 8, 15, 32, 35, 38, 76, 79, 81, 82, 84, 90,
 92, 94, 109, 111, 112, 116, 120, 153, 231,
 232, 233, 236, 239, 240, 241, 243, 244, 245,
 248, 256, 267, 268, 298, 299, 302, 354, 355,
 361
 Quitman Mountains xiii, 72, 73, 95, 134, 135,
 337, 339, 342, 343, 344, 345, 346, 351, 355,
 358, 359, 360, 363, 369, 370
-
- R**
 radiolitids 35, 41, 42, 60, 117, 261, 269
 ramp setting 92
 Red Light Member xiii, 337, 342, 349, 350,
 352, 354, 355, 356, 360, 361, 363, 369
 reefal structures xii, 187, 188, 197
 reef-builders iii, 197
 Rostroptygmatis-Nerinella-Cerithiidae Assem-
 blage 121
 Rostroptygmatis-Plesioptyxis Assemblage 121
 Rotaliid foraminifera 42
 rudist bank 151, 269, 270
 rudist buildups xi, 35, 59, 60, 61, 117, 121, 227,
 230, 253, 257, 261, 263, 264, 269, 270
 rudist mounds 111, 121, 253
 rudists 33, 34, 35, 37, 41, 42, 59, 60, 61, 63, 75,
 86, 88, 90, 95, 108, 109, 111, 151, 153, 188,
 189, 190, 261, 266
-
- S**
 Sabinas Basin 13, 28
 San Marcos Arch 228, 229, 230, 268, 270, 271,
 290
 San Marcos Arkose 14, 20
 San Martine Member 105
 Santa Elena Formation xi, 27, 30, 33, 35, 36,
 38, 40, 41, 42, 53, 56, 58, 59, 60, 61
 Sarten Sandstone 152, 154
 sea-level fluctuations 60, 61
 second-order cycles 284, 285
 sediment accumulation rate 13, 20, 27, 46, 49,
 58, 60, 119, 271, 283, 284
 sedimentary cycle xii, 246, 283, 284
 shallowing-upward sequences 227, 244, 246,
 271
 shark teeth 154
 shelf environment 69, 71, 89, 90, 94, 115, 291,
 304
 Shoal Creek Limestone 338
 shoreface clinoforms 269
 Sierra Cieneguilla 342, 351, 352, 356, 369
 Sierra de Juarez 148, 149, 151, 153, 154
 Sierra de la Alcaparra 9, 11, 12
 Skull Creek 152
 Sligo Formation 15, 16, 17, 19, 279, 304
 Smelertown Formation 105, 147, 151, 152,
 156, 157, 162, 163, 164, 165, 166, 174, 175,
 176, 179, 180, 181
 soil processes 239
 solitary corals 95, 116, 147, 151, 243, 248, 256,

268, 269, 348, 356, 357
 Sonora xiii, 2, 4, 14, 90, 187, 188, 189, 191, 198
 Spain 157, 189, 191, 200, 204, 205, 206, 213, 214, 217, 218, 220, 283, 304
 sponges 75, 95, 111, 151, 350, 351, 353, 356, 363, 369, 370
 stillstands 270
 stromatolitic facies 39
 stromatoporoids 190, 351, 353
 strontium isotope 315, 360, 370
 Stuart City shelf edge 272
 Sue Peaks Formation xi, 27, 33, 34, 35, 43, 50, 51, 52, 53, 55, 56
 Sycamore Sandstone 1, 15, 16, 17

T

Tamaulipas xi, 1, 28, 30
 tectonism 12, 13, 272, 304
 Telephone Canyon Formation xi, 27, 30, 32, 33, 34, 43, 44, 45, 46, 47, 48, 49, 50, 51, 55, 56, 58, 59, 60, 61, 62, 63
 Tethyan Realm xii, 88, 101, 119, 143, 147, 157, 179, 180, 310, 311
 texigryphaeids 116, 151, 153, 315
 Theia xii, 101, 119, 143
 Thermopolis Formation 152
 third-order cycles xiii, 277, 284, 285, 287, 304
 TOC/TN ratio 47
 trace elements 360
 transgressive systems tract xi, xii, 27, 53, 55, 58, 60, 63, 83, 92, 95, 104, 106, 154, 233, 271, 272, 281, 282, 283, 284, 285, 287, 289, 291, 298, 299, 306, 337, 361
 Trans-Pecos Texas 3, 4, 27, 28, 71, 72, 96, 102, 337, 339, 340, 341, 342, 350, 351, 353, 358, 359, 361, 362, 369, 370
 trioniids 109, 111, 115, 119
 Trinity Division 17, 280, 330
 Trinity Group viii, xi, 17, 27, 58, 63, 72, 101, 104, 105, 127, 132, 136, 149, 228, 230, 231, 233, 277, 280, 284, 285, 330
 Trinity River Valley xiii, 268, 277, 278, 281, 282, 283, 285, 290, 295, 296, 307, 309, 316, 319, 320, 330, 339
 trophic structures 50, 53

trough-fill accretion bedding 236, 237
 Tucumcari 152, 163, 295, 315
 Turonian 103, 105, 148, 154, 179, 206, 207, 213, 214, 215, 291
 Twin Mountain Formation 280, 284, 330
 Tylostoma 119, 121, 127, 128, 130, 143
 Tylostoma-Aporrhaid-Turritella Assemblage 119, 120

U

Upper Albian xi, xii, xiii, xvi, 35, 89, 101, 104, 105, 124, 147, 151, 153, 154, 157, 160, 161, 162, 163, 164, 165, 166, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 227, 277, 278, 306, 308, 309, 310, 311, 312, 313, 314, 315, 316, 320
 Upper Finlay Member 151
 upper marl member 227, 246, 249, 251, 253, 268
 Upper Tamulipas formation 306

W

Walnut Formation xii, 72, 124, 128, 139, 151, 163, 227, 230, 231, 232, 233, 235, 236, 238, 239, 240, 241, 243, 244, 245, 246, 247, 248, 249, 251, 253, 254, 282, 287, 289, 290, 306, 307, 309, 310, 311, 312, 313, 314, 315, 316, 329, 330, 331, 335
 Washita Group viii, xii, xiii, 27, 28, 105, 126, 149, 151, 163, 230, 266, 267, 268, 277, 278, 280, 282, 283, 284, 285, 290, 291, 293, 294, 295, 296, 297, 298, 299, 304, 306, 309, 310, 312, 313, 314, 316, 318, 319, 320, 328, 329, 339, 359, 370
 Weno Formation 153, 169, 282, 290, 292, 297, 298, 307, 309, 328, 331, 332, 335
 West Texas platform 340
 Whitestone Grainstone Lentil 246, 267
 Wichita Paleoplain 278
 Woodbine Formation 280, 285, 296, 302, 304, 306, 320, 328, 332, 359, 362

Y

Yearwood Formation 104, 105

Yucca Formation 7, 8, 9, 10, 11, 13, 15, 105