

## INDEX

### A

Advanced Very High Resolution Radiometer, 154, 195  
 Agricultural *ejidos*, 34, 40  
 Altamira, vii, xi, 70, 71, 75, 76, 77, 82, 86, 87  
 Amazon Basin, v, 62, 63, 66, 310  
 Amazon frontier, 86  
 Amazonia, 6, 29, 69, 91, 92, 136, 210, 251, 282, 294, 296, 297  
 AVHRR, 14, 55, 131, 195, 210

### B

*Bajos*, 33, 34, 37, 48, 49  
 Biophysical processes, 4  
*Bomas*, 193, 194, 206, 245  
 Boserup, 99, 105, 135, 302, 303, 325  
 Boserupian, 42, 62, 63  
*Bosque mediano*, 33, 41  
 Brazil, xvii, xviii, 66, 70, 86, 88, 91, 92, 93, 101, 135, 136, 268, 308, 313, 327

### C

CA modeling, 132  
 Cadastral maps, 8, 11, 20, 107, 150, 158, 161, 163, 176  
 Cartesian coordinate system, 7, 8

Cellular automata, 59, 95, 96, 100, 103, 125, 132, 291, 292  
*Chacra*, 109  
 Chajanovian models, 63  
 Change trajectories, 123  
 Change-detection techniques, 245  
 Chayanovian model, 42  
*Chicleros*, 34  
 Circular migration, 13  
 Classification accuracy, 72, 287  
 Cohort-effects, 18  
 Cohorts, 72, 74, 80, 82, 87, 89, 90, 290  
 Colonization, vii, xi, 63, 66, 67, 78, 82, 86, 89, 103, 120, 283  
 Communal land, 184, 186, 201, 248  
 Community level, vii, xvii, xviii, 2, 3, 5, 19, 77, 218, 301, 314  
 Complexity, 4, 5, 32, 98, 131, 185, 194, 196, 197, 200, 202, 225, 289, 292, 293  
 Confidentiality, 9, 22, 23, 170, 264, 265  
 Contraceptive use, xi, 86

### D

Data quality, 21  
 Deforestation, vii, 18, 31, 32, 34, 35, 36, 37, 38, 40, 54, 55, 56,

- 62, 63, 64, 65, 66, 70, 71, 74,  
75, 79, 80, 82, 83, 84, 85, 87,  
89, 90, 91, 92, 96, 97, 100, 103,  
131, 151, 178, 205, 218, 223,  
234, 239, 241, 242, 243, 285,  
287, 288, 289, 291, 301, 308,  
310, 312, 315, 316, 317
- Deforestation and agricultural  
change, 32
- Demographic and environmental  
change, vii, 64
- Demographic data, 9
- Direct and indirect* consumption,  
304
- Disturbance regimes, 282
- Dwelling unit, 13, 19, 20, 23, 109,  
163, 164, 172, 177
- Dynamic spatial simulations, 279,  
291

## E

- Ecological correlation fallacy*, 2,  
143, 238
- Ecological functions, 280
- Ecological heterogeneity, 183,  
185, 188, 190, 194
- Economic approaches, 3
- ECOSUR, 42, 50, 54
- Ecuadorian Amazon, 13, 74, 95,  
96, 101, 126, 135, 136, 296,  
301, 312
- Edge, 120, 130, 191, 279, 281,  
282, 285, 287, 289
- Ejidatarios*, 34, 40, 41, 54, 55, 58
- Ejidos*, vii, 34, 36, 37, 38, 40, 41,  
42, 49, 50, 52, 54, 55, 58, 310
- Environmental change, 1, 57, 184
- Environmental consumption*, 299,  
304, 306, 307, 308, 309, 322,  
323
- Exogenous forces, 288

## *People and the Environment*

- Extensification, 90, 96, 97, 99,  
100, 103, 131, 178, 302
- Extinction rates, 282, 283, 289

## F

- Farm subdivisions, 119
- Feedbacks, 31, 98, 99, 120, 138,  
236, 279, 290, 292, 293
- Field sketch maps, 95, 97
- Finca madres*, viii, 105, 110, 114,  
115, 119
- Fincas*, viii, 96, 100, 101, 102,  
103, 104, 106, 107, 109, 110,  
111, 112, 113, 114, 115, 116,  
117, 119, 121, 124, 129, 130,  
131
- Firewood collection, 12
- Focus groups, 8
- Forest fragmentation, 211, 212,  
223, 225, 228, 315
- Fuelwood, 98, 256, 257, 258, 259,  
261, 263, 264, 265, 266, 269,  
270, 271, 272, 305
- Fuelwood consumption, 257, 269,  
271
- Functional village territories, 11
- Fuzzy set theory, 11

## G

- Geographic information science*,  
6
- Geographical space, 3, 146
- Global level, 4
- GPS measurements, 11, 262, 266
- GPS technology, 5, 15, 87, 97,  
124, 130, 186, 188, 190, 205
- Grain and extent*, 9
- Grazing system, 190, 194

## H

- Habitat destruction, 279, 280, 281, 282, 283, 284, 287, 289, 290
- Hierarchy theory, 120
- Horton overland flow, 213, 218
- Household Data Collection, 163
- Household level, 2, 3, 9, 10, 11, 12, 19, 23, 62, 65, 98, 126, 140, 142, 143, 144, 205, 233, 237, 238, 242, 249, 265, 269, 270, 271, 287, 290, 313
- Household plots, 11, 96, 172
- Household survey, xi, 31, 43, 44, 45, 55, 95, 97, 103, 106, 109, 110, 112, 114, 115, 124, 132, 134, 156, 158, 222, 226, 233, 234, 235, 237, 239, 240, 241, 242, 243, 246, 249, 283, 310, 311, 318, 323, 324
- Household surveys, 103, 128, 212, 262, 266
- Household-level, ix, 2, 5, 9, 10, 100, 103, 124, 125, 142, 186, 207, 234, 235, 237, 238, 243, 262, 271, 273, 290
- Human behavior, 2, 120, 127, 137, 138, 139, 140, 141, 184, 188, 303, 304, 308, 309, 314, 317, 323
- Human determinants of land-use change, 299
- Human-environment interactions, xviii, 101, 185, 236, 258

## I

- IKONOS, vii, viii, ix, 14, 20, 76, 77, 97, 108, 111, 116, 117, 118, 119, 130, 131, 260, 265, 266, 268, 269, 271, 274
- Image change-detection, 95, 97, 103, 121
- Image classifications, 120

*Integrated land science*, 32, 56, 57

Integrated pixel, 20

Intensification, 62, 63, 90, 99, 100, 105, 127, 190, 302

Interdisciplinary team, 3

## K

Key informants, 8, 221

KHAT statistic, 221

Kinship ties., 13

## L

Land privatization, 205

*Land transformation*, 302

Land-change models, 31, 36, 54, 57

Land-cover classifications, 50, 151

Landsat MSS, 70, 72, 111, 112, 260

Landsat Thematic Mapper, viii, 6, 97, 151, 154, 219, 260

Landsat TM time series, 111

landscape ecology, xviii, 3, 53, 98, 131, 185, 187, 291

Landscape ecology, 98, 187, 198

Landscape heterogeneity, 183, 184, 188, 190, 199, 200, 204, 206

Land-tenure, 207

*Land-tenure policies*, 218, 233, 247, 315

Linear regression, 83, 84

*Lineas*, 96, 102

*Linked remote sensing*, 233, 249

Longitudinal data, 14, 133, 142, 146, 155, 159, 176, 312, 317

Longitudinal designs, 13, 146, 312

Longitudinal household surveys., 97

Longitudinal survey, 13, 14, 15,  
96, 121, 132, 133

## M

Maasai, v, 183, 184, 185, 189,  
190, 191, 192, 193, 197, 204,  
206, 207, 208, 209, 250, 251,  
314  
Markovian, 291  
Masai community, 248  
Masai Mara, 233, 234, 244, 245,  
246  
Masai Mara Natural Reserve, 233  
Matrix, 122, 151, 221, 279, 281,  
285, 286, 287  
Maya agriculture, 37  
*Mediana*, 41  
*Mediano*, 39  
Mesoamerican Biological  
Corridor, 35, 38, 61  
*Metabolic rift*, 307  
Metapopulation models, 283, 289  
Mexico, xvii, xviii, 32, 34, 37, 40,  
43, 47, 49, 52, 57, 58, 60, 61,  
296, 301, 310, 326  
*Milpa* system, 42  
Monte Carlo, 184, 197  
Multicultural, 226  
Multilevel Model, 125  
Multiphasic Theory, 144  
Multiresolution, 27

## N

Nang Rong District, viii, 142, 145,  
147, 148, 151, 152, 155, 166,  
172, 173  
NDVI, ix, 10, 47, 48, 122, 145,  
183, 184, 185, 188, 194, 195,  
196, 197, 198, 199, 200, 201,  
202, 203, 206, 219  
Neighborhood effects, 23

## *People and the Environment*

Neighborhood History Calendar  
method, 321  
Nonlinear feedbacks, 99  
Nonlinearity, 288, 289  
Normalized Difference  
Vegetation Index, 10, 145

## O

Oriente, viii, 96, 97, 98, 100, 101,  
102, 105, 112, 120, 121, 126,  
130, 131, 132, 134  
Out-migration, 98, 99, 104, 140,  
144, 258, 265, 269, 300  
Ownership versus Use, 157

## P

Panda habitat, 12, 253, 254, 256,  
257, 258, 270, 272, 273, 274,  
287, 308, 316  
Panel studies, 14  
Participant observation, 8, 46 227,  
236, 245  
*Pastoralism*, 6, 189, 190, 191,  
234  
Pastoralists, 5, 6, 26, 184, 186,  
187, 190, 191, 194, 196, 197,  
198, 200, 204, 206, 207, 244,  
247, 248, 271  
Pattern metrics, 95, 96, 120, 132  
Percolation theory, 289  
*Plangs*, 158, 160, 164, 165, 167,  
168, 169, 173, 174, 175  
Political ecology perspective, 4,  
218  
Principal Components Analysis,  
47  
Property boundaries, 62, 65  
Property-level, 235, 243  
Prospective design, 14  
Proximate determinants, 4, 99,  
236, 244, 303, 324

**Q**

Qualitative methodologies, 8

**R**

Radial buffers, 11, 121

Remnants, 279, 281, 282, 284,  
286, 287, 290

Retrospective design, 14, 15

Ricardian model, 42

**S**

Satellite image time series, 62, 65

Secondary plant succession, 64,  
65, 66, 72, 90, 96, 100

Semistructured interviews, 8, 221,  
226, 227, 244

Simulation models, 97, 260, 271,  
316

Sketch maps, 8, 48, 50, 58, 97,  
104, 107, 108, 114, 116, 119,  
130, 227, 266, 274, 312

*Solares*, 104, 105, 128, 312

Southern Yucatán peninsular  
region, vii, 31, 32, 43, 44, 45,  
51, 310

Spatial autocorrelation, 25, 53,  
145, 248, 290

Spatial Metrics, 284

Species composition, 39, 88, 212,  
257, 261

SPOT, 14, 131, 154, 240, 260,  
264

Stakeholders, 24, 156, 269

Survey Instrument Image Maps,  
106

Swidden, 34, 35, 37, 39, 48, 50,  
57, 59, 132, 212, 214, 216, 218,  
219, 223, 225, 227, 230

SYPR, v, vii, 31, 32, 35, 38, 41,  
42, 48, 50, 52, 53, 54, 56, 57,  
58, 59, 61

**T**

Tat hamlet, ix, 214, 215, 216, 217,  
223, 229

Tat landscape, 214

Thailand, v, viii, xiii, xv, xvii,  
xviii, xix, 6, 15, 18, 28, 29, 30,  
135, 137, 138, 139, 141, 143,  
145, 147, 148, 150, 151, 171,  
173, 177, 178, 179, 180, 209,  
218, 231, 234, 250, 268, 294,  
301, 308, 313, 326

Theissen polygons, 11

Theory of island biogeography,  
282, 283, 285

TM imagery, 36, 38, 46, 50, 51,  
52, 55, 56, 106, 114, 117, 188,  
310

Trajectories of deforestation, 63

**U**

Use versus Ownership, 18

**V**

Village boundaries, 11, 240

Village-level, 143, 235, 237, 238,  
243

Von-Thunenian models, 52, 62,  
63

**W**

Wildlife habitat, 254

Wolong, 253, 254, 255, 256, 258,  
260, 261, 262, 263, 264, 265,  
266, 268, 269, 270, 272, 273,  
275, 276, 277, 316, 317, 326

People and the Environment

Approaches for Linking Household and Community  
Surveys to Remote Sensing and GIS

Fox, J.; Rindfuss, R.R.; Walsh, S.J.; Mishra, V. (Eds.)

2003, XVII, 319 p. With CD-ROM., Hardcover

ISBN: 978-1-4020-7322-9