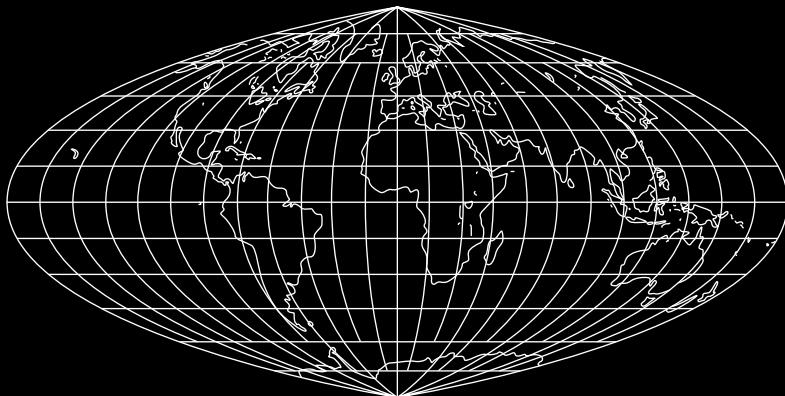


REFLECTIONS ON THE CARTOGRAPHIC LANGUAGES



Paul Schweizer
Severin Halder
(kollektiv
orangotango)

When collectively mapping possible worlds

“Expanding both heart and mind, engaged pedagogy makes us better learners because it asks us to embrace and explore the practice of knowing together” (hooks 2010: 22)

kollektiv orangotango is a circle of critical geographers and friends who have been in coevolution since the 2000s. As popular educators, we strive for a collective horizontal production of knowledge; as militant scholars, we link practical interventions and theoretical reflection (Halder 2018). Our commitment to mutual aid and to solidarity ties us to a network of befriended activists and researchers who, in extensive collaborations and through joint learning processes, have become part of **kollektiv orangotango**. We place our work at the service of emancipatory processes in youth clubs and community gardens, in schools and autonomous social centers, on park benches and in lecture halls, in favelas and in rural communities. Despite our engagements in artistic interventions in public space, urban agriculture, and others, we are unemployed geographers with a predilection for maps. In fact, critical cartography is a crucial part of our work. Throughout the last decade we have

co-conducted collective mappings and critical cartography processes in Latin America and Europe. Concomitantly, we have published a series of educational and DIY mapping materials, including multilingual manuals¹, video tutorials², and an international collection of counter-cartographies (kollektiv orangotango+ 2018). While we sometimes co-create critical maps as results, we are mostly interested in mapping as a process, and that is what is at stake in this chapter. Collective mapping for us is a common process of territorial reflection, awareness-building and self-organization. It is a process in which one's own relationship to space is reflected upon, in which different intersubjective perspectives as well as different types of knowledge (e.g., every day, traditional, embodied, and academic knowledge) can flow together and open up scope for action. To achieve this, we feel that it is crucial to integrate a notion of “sentipensar” – sensing/thinking – (Escoabar 2020: 67) into what, with reference to bell hooks may be termed “engaged cartography”, that is, a cartography based on dialog that engages in both “heart and mind” (hooks 2010: 22). This happens by casting a spatial perspective on the dialectical relationship between us humans and our environment; this relationship can be changed by humans, which in turn changes humans. Thus, we understand collective mapping as the process of geographic alphabetization in everyday life and action spaces through dialog, “mediated by the world” (Freire 2000: 80). – We continuously learn from co-mappers as we adapt the means and presumptions of our mapping practices to the concrete social contexts in which we coincide.

MAPPING OTHER WORLDS

After years of mapping with diverse groups in various contexts, we are determined to experiment and to develop our practice towards new forms and ways of mapping. We note that most critical maps, including some co-authored by ourselves, reproduce the forms and formalities of traditional western cartography to a significant extent. This concerns adherence to a Cartesian coordinate system, to conventions of scale, projections, as well as to the use of administrative and state borders in

01 Available online at: (kollektiv orangotango n.d.).

02 Available online at: (kollektiv orangotango n.d.).

map bases and as a means to structure one's own cartographic analysis and representation, to name just the most obvious ones. The few cases in which lessons from critical cartography have made their way to a somewhat wider public are, more often than not, sustained by strong alternative images or icons, as has most illustratively been shown in Joaquín Torres García's famous drawing "América Invertida". Yet, the set of "other" cartographic knowledge or imagery remains rather limited. For instance, the Mapuches' privileging of the east – where the sun rises – as the main cardinal point (Mansilla Quiñones/Pehuén/Letelier 2019) lacks prominence even in critical-cartography discourses.

Our engagement as popular educators who promote critical cartography, our experience in collective mapping, as well as discussions with fellow critical cartographers from diverse backgrounds, urge us to go beyond standard attributes of critical cartography. This implies the necessity to develop cartographic means that not only criticize some elements of traditional cartography, but also those that open our gaze towards new cartographies based on different conceptions of space, territory, and the relations that they contain. For cartography to do its humble part in "constructing the pluriverse" (Reiter 2018), it first needs to embrace "multiple forms of knowledge, including the affective, embodied, oral, cognitive and cultural" (Motta 2015: 178) and find adequate means to give voice to this plurality of knowledges. It involves using maps and mapping processes as one among many tools to develop a different imagination of the world and our relations with and within it. As Ângela Massumi Katuta puts it in a recent talk on mapping as a tool for emancipation, in order to satisfy the demand to represent other forms of being³ in the world, we need to carry out a rupture in cartographic visual language

03 In Portuguese, Katuta speaks of both "ser e estar no mundo".

88

88

85

85

10

10

15

15

(AGB Porto Alegre 2020)⁴. Indeed, Katuta argues that we need to broaden the concept of what a “map” is in order to include “other” epistemologies or cosmovisions and, therefore, make cartography a tool for the creation of new worlds. Careful inquiry into non-Western, indigenous, or non-modern mapping practices supply rich insights regarding other cartographic languages. While research on specific indigenous mapping practices has gained some attention in recent decades, an intensified participation of indigenous subjects and knowledges into mapping processes would be vital to decolonize cartography (Rose-Redwood et al. 2020: 151) and to integrate an enhanced choice of mapping tools and graphic elements to counter-mappers’ repertoires.⁵

04 It is not by coincidence that we cite a range of current multimedia publications, instead of limiting ourselves to references to prestigious scientific journals and books. This is because, on the one hand, this text is the fruit of a very special historic context, the 2020 Corona pandemic, in which online discussions in particular, both live or archived on popular video platforms, gain a renewed relevance, and offer a great deal of relevant data, way before being published in written formats. On the other hand, we are rather fed up with proprietary knowledge production. In the 21st century, the validity of Proudhoun’s famous phrase needs to be emphasized more than ever, and this time with special vehemence for the property of knowledge. Proprietary knowledge is thieved knowledge! Thus, we prioritize references to all kinds of open access formats. Moreover, we prioritize multimedia formats to continuous text, as we hope these formats invite people into the discussion who are traditionally excluded from academic debates, but whose contribution is all the more valuable and essential for “constructing the pluriverse” (Reiter 2018).

05 The decolonization of cartography comes with challenges. Painstaking attentiveness towards the danger of coopting indigenous mapping practices is essential here. After all, instead of serving the strengthening of the sovereignty of indigenous communities in their territories, these maps might serve the particular interest of the state and/or capital (Bryan/Wood 2015) or the mistreatment of indigenous cosmovisions by forcing their spatial perception into the Cartesian coordinate system to be considered valid knowledge in court cases on the issue of indigenous land rights.

69

20

20

25

25

30

30

35

35

40

40

45

45

88 We take this occasion to reflect on some of the
 means of designing maps and elaborate on how
 we hope to develop them further towards deco-
 lonal mapping practices. This is no blueprint.
 We share our experience in order to open up
 85 dialog, to learn from each other, delearn toxic
 residues of colonial and corporate cartography
 and, instead, create maps in which – to borrow
 the famous Zapatista slogan – many worlds fit.

89 We start this by scrutinizing two of the most
 10 basic graphic elements that most maps con-
 tain: surfaces and lines. Let us, to this end, fol-
 low the dominant modern images of maps as
 plain paper maps. Before the mapping starts,
 there is the unmapped void, epitomized by
 15 blank white space. Instead, we started to use
 different colored blank sheets as cartographic
 bases, given that we realized that this implies
 other imaginaries of the map's void. Instead of
 20 depicting the simplified, exclusively relevant
 data on an “emptiness” – white – background,
 we meditated and discussed with co-mappers
 25 about how they felt about those aspects that
 70 are not going to be visualized in this specific
 map and decided on which color best depicts
 this pluriversal “fullness, beauty and vitality”
 (Escobar 2020: 133). The change in perspec-
 30 tive that we hope to accomplish suggests that
 mapping is not about knowing everything
 about the mapped territory and topic, and
 thus having to erase the white spots on the
 35 map (Glissant 2013: 51). Instead, we realized
 that in a lot of cases, collective cartography
 implies a smashing together of heterogene-
 40 ous, often divergent experiences in shared
 territories. This exhorted us to question our
 45 cartographer's reflex to seek an unequivocally
 valid representation. We propose applying
 opacity (see Glissant 1997, 190) as a decolonial
 option to visualize complexity in order to vis-
 50 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 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
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 4510
 4511
 4512
 4513
 4514
 4515
 4516
 4517
 4518
 4519
 4520
 4521
 4522
 4523
 4524
 4525
 4526
 4527
 4528
 4529
 4530
 4531
 4532
 4533
 4534
 4535
 4536
 4537
 4538
 4539
 4540
 4541
 4542
 4543
 4544
 4545
 4546
 4547
 4548
 4549
 4550
 4551
 4552
 4553
 4554
 4555
 4556
 4557
 4558
 4559
 45510
 45511
 45512
 45513
 45514
 45515
 45516
 45517
 45518
 45519
 45520
 45521
 45522
 45523
 45524
 45525
 45526
 45527
 45528
 45529
 45530
 45531
 45532
 45533
 45534
 45535
 45536
 45537
 45538
 45539
 45540
 45541
 45542
 45543
 45544
 45545
 45546
 45547
 45548
 45549
 45550
 45551
 45552
 45553
 45554
 45555
 45556
 45557
 45558
 45559
 45560
 45561
 45562
 45563
 45564
 45565
 45566
 45567
 45568
 45569
 45570
 45571
 45572
 45573
 45574
 45575
 45576
 45577
 45578
 45579
 45580
 45581
 45582
 45583
 45584
 45585
 45586
 45587
 45588
 45589
 45590
 45591
 45592
 45593
 45594
 45595
 45596
 45597
 45598
 45599
 455100
 455101
 455102
 455103
 455104
 455105
 455106
 455107
 455108
 455109
 455110
 455111
 455112
 455113
 455114
 455115
 455116
 455117
 455118
 455119
 455120
 455121
 455122
 455123
 455124
 455125
 455126
 455127
 455128
 455129
 455130
 455131
 455132
 455133
 455134
 455135
 455136
 455137
 455138
 455139
 455140
 455141
 455142
 455143
 455144
 455145
 455146
 455147
 455148
 455149
 455150
 455151
 455152
 455153
 455154
 455155
 455156
 455157
 455158
 455159
 455160
 455161
 455162
 455163
 455164
 455165
 455166
 455167
 455168
 455169
 455170
 455171
 455172
 455173
 455174
 455175
 455176
 455177
 455178
 455179
 455180
 455181
 455182
 455183
 455184
 455185
 455186
 455187
 455188
 455189
 455190
 455191
 455192
 455193
 455194
 455195
 455196
 455197
 455198
 455199
 455200
 455201
 455202
 455203
 455204
 455205
 455206
 455207
 455208
 455209
 455210
 455211
 455212
 455213
 455214
 455215
 455216
 455217
 455218
 455219
 455220
 455221
 455222
 455223
 455224
 455225
 455226
 455227
 455228
 455229
 455230
 455231
 455232
 455233
 455234
 455235
 455236
 455237
 455238
 455239
 455240
 455241
 455242
 455243
 455244
 455245
 455246
 455247
 455248
 455249
 455250
 455251
 455252
 455253
 455254
 455255
 455256
 455257
 455258
 455259
 455260
 455261
 455262
 455263
 455264
 455265
 455266
 455267
 455268
 455269
 455270
 455271
 455272
 455273
 455274
 455275
 455276
 455277
 455278
 455279
 455280
 455281
 455282
 455283
 455284
 455285
 455286
 455287
 455288
 455289
 455290
 455291
 455292
 455293
 455294
 455295
 455296
 455297
 455298
 455299
 455300
 455301
 455302
 455303
 455304
 455305
 455306
 455307
 455308
 455309
 455310
 455311
 455312
 455313
 455314
 455315
 455316
 455317
 455318
 455319
 455320
 455321
 455322
 455323
 455324
 455325
 455326
 455327
 455328
 455329
 455330
 455331
 455332
 455333
 455334
 455335
 455336
 455337
 455338
 455339
 455340
 455341
 455342
 455343
 455344
 455345
 455346
 455347
 455348
 455349
 455350
 455351
 455352
 455353
 455354
 455355
 455356
 455357
 455358
 455359
 455360
 455361
 455362
 455363
 455364
 455365
 455366
 455367
 455368
 455369
 455370
 455371
 455372
 455373
 455374
 455375
 455376
 455377
 455378
 455379
 455380
 455381
 455382
 455383
 455384
 455385
 455386
 455387
 455388
 455389
 455390
 455391
 455392
 455393
 455394
 455395
 455396
 455397
 455398
 455399
 455400
 455401
 455402
 455403
 455404
 455405
 455406
 455407
 455408
 455409
 455410
 455411
 455412
 455413
 455414
 455415
 455416
 455417
 455418
 455419
 455420
 455421
 455422
 455423
 455424
 455425
 455426
 455427
 455428
 455429
 455430
 455431
 455432
 455433
 455434
 455435
 455436
 455437
 455438
 455439
 455440
 455441
 455442
 455443
 455444
 455445
 455446
 455447
 455448
 455449
 455450
 455451
 455452
 455453
 455454
 455455
 455456
 455457
 455458
 455459
 455460
 455461
 455462
 455463
 455464
 455465
 455466
 455467
 455468
 455469
 455470
 455471
 455472
 455473
 455474
 455475
 455476
 455477
 455478
 455479
 455480
 455481
 455482
 455483
 455484
 455485
 455486
 455487
 455488
 455489
 455490
 455491
 455492
 455493
 455494
 455495
 455496
 455497
 455498
 455499
 455500
 455501
 455502
 455503
 455504
 455505
 455506
 455507
 455508
 455509
 455510
 455511
 455512
 455513
 455514
 455515
 455516
 455517
 455518
 455519
 455520
 455521
 455522
 455523
 455524
 455525
 455526
 455527
 455528
 455529
 455530
 455531
 455532
 455533
 455534
 455535
 455536
 455537
 455538
 455539
 455540
 455541
 455542
 455543
 455544
 455545
 455546
 455547
 455548
 455549
 455550
 455551
 455552
 455553
 455554
 455555
 455556
 455557
 455558
 455559
 455560
 455561
 455562
 455563
 455564
 455565
 455566
 455567
 455568
 455569
 455570
 455571
 455572
 455573
 455574
 455575
 455576
 455577
 455578
 455579
 455580
 455581
 455582
 455583
 455584
 455585
 455586
 455587
 455588
 455589
 455590
 455591
 455592
 455593
 455594
 455595
 455596
 455597
 455598
 455599
 455600
 455601
 455602
 455603
 455604
 455605
 455606
 455607
 455608
 455609
 455610
 455611
 455612
 455613
 455614
 455615
 455616
 455617
 455618
 455619
 455620
 455621
 455622
 455623
 455624
 455625
 455626
 455627
 455628
 455629
 455630
 455631
 455632
 455633
 455634
 455635
 455636
 455637
 455638
 455639
 455640
 455641
 455642
 455643
 455644
 455645
 455646
 455647
 455648
 455649
 455650
 455651
 455652
 455653
 455654
 455655
 455656
 455657
 455658
 455659
 455660
 455661
 455662
 455663
 455664
 455665
 455666
 455667
 455668
 455669
 455670
 455671
 455672
 455673
 455674
 455675
 455676
 455677
 455678
 455679
 455680
 455681
 455682
 455683
 455684
 455685
 455686
 455687
 455688
 455689
 455690
 455691
 455692
 455693
 455694
 455695
 455696
 455697
 455698
 455699
 455700
 455701
 455702
 455703
 455704
 455705
 455706
 455707
 455708
 455709
 455710
 455711
 455712
 455713
 455714
 455715
 455716
 455717
 455718
 455719
 455720
 455721
 455722
 455723
 455724
 455725
 455726
 455727
 455728
 455729
 455730
 455731
 455732
 455733
 455734
 455735
 455736
 455737
 455738
 455739
 455740
 455741
 455742
 455743
 455744
 455745
 455746
 455747
 455748
 455749
 455750
 455751
 455752
 455753
 455754
 455755
 455756
 455757
 455758
 455759
 455760
 455761
 455762
 455763
 455764
 455765
 455766
 455767
 455768
 455769
 455770
 455771
 455772
 455773
 455774
 455775
 455776
 455777
 455778
 455779
 455780
 455781
 455782
 455783
 455784
 455785
 455786
 455787
 455788
 455789
 455790
 455791
 455792
 455793
 455794
 455795
 455796
 455797
 455798
 455799
 455800
 455801
 455802
 455803
 455804
 455805
 455806
 455807
 455808
 455809
 455810
 455811
 455812
 455813
 455814
 455815
 455816
 455817
 455818
 455819
 455820
 455821
 455822
 455823
 455824
 455825
 455826
 455827
 455828
 455829
 455830
 455831
 455832
 455833
 455834
 455835
 455836
 455837
 455838
 455839
 455840
 455841
 455842
 455843
 455844
 455845
 455846
 455847
 455848
 455849
 455850
 455851
 455852
 455853
 455854
 455855
 455856
 455857
 455858
 455859
 455860
 455861
 455862
 455863
 455864
 455865
 455866
 455867
 455868

80 and simplification" (Scott 1998: 9), but instead
 85 offers traces that become relevant for readers,
 not by indicating an unequivocal way to follow,
 but by leaving hints to complex realities and
 possible ways, possible spaces, and possible
 actions. In workshops, we propose coloring
 90 areas with pastel crayons, thereby permitting
 the overlaying and mixing of different shades,
 in order to demonstrate the overlapping coex-
 istence of many worlds.

10 Pastel crayons are also a preferable coloring
 15 tool for our purposes because they are espe-
 cially apt for blurring a colored surface's bor-
 20 ders. Apart from the use of distorted, biased
 25 projections and north-up cartographic bases,
 the unreflected reproduction of national and
 30 administrative borders in cartographic bases
 is one of the most frequent blunders commit-
 35 ted even in the realm of "critical mapping".
 This "territorial trap", as John Agnew framed
 40 it in 1994, is certainly most evident and politi-
 45 cally efficacious in the case of national states,
 dominantly conceived in political science and
 50 public discourse as container spaces (Agnew
 1994). Substantial accomplishments have been
 55 made by the struggles of popular groups or in-
 60 digenous communities for their right to de-
 65 fine their own territories, regardless of state
 or property borders. Yet, we argue that taking
 70 the danger of the territorial trap seriously
 75 means questioning the sharp dividing line as
 80 a cartographic visual element as a whole. It
 85 bears a colonial logic of simplifying division
 90 and segregation. It is, in short, the logic of the
 95 state's mapping, so accurately described by
 100 Scott in his seminal work "Seeing like a State"
 (Scott 1998). However valuable the demarca-
 105 tion of certain territories may be for eman-
 110 cipatory struggles (see Zibechi 2011; Bartholl
 115 2018), we suggest that the sharp line be avoided
 120 whenever possible when visually representing
 125 these territories, in order to do justice to the
 130 rhizomic – multiple, dynamic, heterogene-
 135 ous – interconnectedness of territories (see
 140 Oslinger 2019: 12). Thus, the blurred, over-
 145 lap-
 150 ping borders between crayon-colored territo-

80

85

10

15

20

25

30

35

40

45

45

ries of our maps might represent what Escobar (2018: 83) referred to as “zones of contact and partial common ground”. This converges with what we can learn from Mapuche territorial ontology for which the idea of boundaries or borders does not exist. The Mapuche concept of Xawümen is used to identify the points and lines of territorial demarcation between Lofs, which correspond to the smallest units that divide Mapuche territory. Xawümen builds on the idea of coming together, unifying, and linking parts (Mansilla Quiñones/Pehuen 2019: 42). Understanding Xawümen, as a territorial concept of coming together and unifying, opens up a new perspective on co-existing and eventually offers possibilities for building a positive otherness, allowing people to put themselves in one another’s shoes, to promote respectful dialog, and to create a meeting of worlds. Engaged-cartography, given its commitment to the creation of relations between diverse (territorial) experiences, identities, and imaginations, needs to engage in the development of new graphic expressions to represent border zones of encounter. In this sense, as opposed to the dividing, enclosing line, we strongly encourage the extensive use of lines – multiple, colorful, straight, wavy, crooked, interconnected, and interwoven – as representations of connections, relations, and dynamics. Get yourself inspired by Tim Ingold's (2008) anthropological archaeology of the line.

Yet, transcending the notion of paper as the taken for granted raw material for mapping, the demand to find adequate expressions to embrace multiple forms of knowledge into mapping processes also led us to reflect on the materiality of the maps we produce collectively and, consequently, of the sensual perceptions and the stimulus that they imply. How might we get past the dominant role played by the visual and engage other sensations that might be more apt for transmitting certain forms of knowledge into mapping? We derive some possible answers to this question from the material practicalities that arose in our practice when

88

85

18

15

28

72

25

38

35

48

45

88

85

18

15

28

25

38

35

48

45

88

85

10

15

20

25

30

35

40

45

88

85

10

15

20

25

30

35

40

45

mapping in bustling places, in public space, or with large youth groups. Instead of using fragile paper as a raw material for mapping, we started to work with more durable materials like cardboard or textiles. This led us to reflect on how the material character of a map, by addressing other than visual senses and connotations, may be better adapted to transmit certain layers of meaning that conventional paper maps hardly address. So, one of the first questions to pose, when collectively discussing how to map a topic of common interest, might be: “What does this topic make us feel like? If this feeling had a material body, what would it be made of – wood, concrete, paper, woven fabric...?” Integrating a range of materials in the creation of maps – and the mapping process (see Olmedo 2018) – expands the range of sensory perceptions it addresses, and thus permits a dialog with other aspects of spatial experience. ○

FIG. 1

John Krygier emphasized the potential of integrating audio into digital cartography as early as 1994, and many others have elaborated on digital audiovisual maps ever since (Krygier 1994; see Edler et al. 2019). Why not integrate sound in analog collective mapping? In terms of the audiovisual, are we capable of producing simply-audio maps? Indeed, we work with soundmaps that allow groups to explore and to enjoy soundscapes, eventually without the visual, in order to further extend the variety of sensory perceptions in our cartographic repertoire. Since smartphones work as both recording and playback devices, a soundmap can be constructed without much additional equipment. Collective mappers may record sounds, produced with their bodies or encountered in on-site visits, or find suitable audio in internet sound archives or even on popular music platforms, depending on the maps’ topic and purpose. Having the relevant sounds on the devices means that these can be distributed on the map’s basis – e.g., the floor of the room in which the mapping takes place. The coordi-

73

nates may be geographically referenced, but can also relate to thematic or emotional fields. Now co-mappers can discover the map by wandering on it. If the group is in a safe place, this can be done with closed eyes.

Mapping with children and youngsters in particular led us to experiment with other techniques and to create new cartographic expressions. Breaking up notions of metric scale and maps as static objects, we work with busy picture maps in which participants can move elements around to create diverse encounters and constellations. As a result, the map becomes a territory for collective ludic engagement and debate. We combine mapping with performative elements by building on Augusto Boal's 'Theatre of the Oppressed' (see Boal 1982). In a combination of ludic maps with theatre methods, we collectively build maps in a walk-through scale, so that mappers and passersby – turning themselves into spontaneous mappers – can move themselves on the map and move the map: Meet, argue, hug on the map. ○ Other, very valuable works to integrate our own bodies in our maps, and moreover to integrate the "body-territory" into territorial struggles, have been formulated by Latin American feminist cartographers in recent years. The mapping practices have been described illustratively in the manual "Mapeando el Cuerpo-Territorio" (Colectivo Miradas Críticas del Territorio desde el Feminismo 2017) or in the booklet "Los Feminismos como Práctica Espacial" (Colectivo Geografía Crítica 2018) and build on the assumption that our own body-territories are, indeed, the first territory to be reappropriated through consciousness-raising body mapping. In a nutshell, the message of these feminist mapping practices can be found on the top of the social media page of Mexican critical geography collective Geobrujas – Comunidad de Geógrafas: "Neither land nor women are territory of conquest".

From our body-territories to everyday environments, mapping is a precious tool for reim-

88

85

18

15

28

74

25

38

35

48

45

88

85

18

15

28

25

38

35

48

45

FIG. 2

80

85

10

15

20

25

30

35

40

45

agining ourselves and our diverse ways of being in the world. Yet, it is the world – the global – that, as an object of mapping, gains special attention if mapping ought to be one of many tools to express an emergent decolonial global ethics (Dunford 2017). Critical cartography, if committed to providing tools to a decolonial pedagogy and politics, must not abandon the scale of the planetary (De Lisssovoy 2010: 290). Which graphic elements and aesthetic strategies can cartography provide when it comes to visualizing a world in which many worlds – and many ways of being in the world – fit? How can we create cartographic representations of worlds that emphasize conviviality, rather than distance; encounter, rather than separation; and complexity, rather than unequivocality? The first part of the answer comes easily: Never again shall any cartography – no matter what its epistemological or ideological basis be – dictate a “single notion of the world” (Escobar 2018: 84). Can we, at least, offer a map basis on which pluriversal existing and becoming subjects might experiment themselves? When discussing this, in the course of the Not-an-Atlas project (see below), we concurred that such a cartographic basis should express “global solidarity based on non-dominative principles of coexistence and kindredness” (De Lisssovoy 2010: 279). We concluded that the aspiration of non-domination should be manifest through the elimination of up-down notions. ○ Whereas the notions of solidarity and kinship may be represented by “closing the ranks”, moving the map’s elements – continents in the world map’s case – together in a way that suggests equal proximity between all elements, without a meaningful order. Finally, we problematized traditional world maps’ inherent top-down, bird’s eye perspective implying an “abstracted, mental, and totalizing” approach (Morris and Voyce 2015; see Certeau 2002: 119) – “a view of the world as seen by those who rule it – a world from above” as Escobar puts it (Escobar 2018: 82).

FIG. 3

80

85

10

15

20

25

30

35

40

45



● FIG.1 ► Élise Olmedo's collective textile mappings with Moroccan women are a great example of how embracing other materialities and sensory perception can open cartography up to other facets of geographical knowledge.

15

10
15
20
25
30
35
40



● FIG.2 ► The "map is not the territory" [Korzybski 2005], but the territory may well be transformed into a map, engaging passersby into encounters and collective reflection on possible worlds.

45

20
25
30
35
40
45

10
15
20
25
30
35
40
45

● FIG.3 ▶ When designing the Not-an-Atlas Logo, we aimed to abandon hierarchical representations of the globe in favor of a holistic representation that emphasizes kindredness. The back-to-front version strives to dismiss the from-above view on the world, prioritizing cartographers' condition of being in the world.

To better express our commitment to the bottom-up perspective, and our intention of providing a cartographic basis on which to visualize pluriversal ways of being *in* the world, why not depict the continent's silhouettes on the world map as seen from *with-in* the world – that is, back-to-front, when referring to conventional world maps' representations?

88

88

85

85

18

18

FROM COLLECTIVE MAPPINGS TO GLOBAL ENCOUNTERS

As a matter of fact, in addition to our engagement in collective critical mapping in various local contexts, we engaged in counter-cartography on a global scale as we initiated the Not-an-Atlas project in 2015. Building on our activist experiences, and networks as well as friendships with critical cartographers in Latin America and Europe, we invited mappers to participate in the project that was initially directed to publishing the book "This Is Not an Atlas - A Global Collection of Counter-Cartographies" (kollektiv orangotango+ 2018), but that soon turned out to go well beyond the scope of the book.

78

25

38

35

48

45

15

28

25

38

35

48

45

Not-an-Atlas is itself an attempt to represent the many worlds of critical cartographers from all over. The collection shows how maps are created and transformed as a part of political struggle, for critical research or in art and education: from indigenous territories in the Amazon to the anti-eviction movement in San Francisco; from defending commons in Mexico to mapping refugee camps with balloons in Lebanon; from slums in Nairobi to squats in Berlin; from supporting communities in the Philippines to reporting sexual harassment in Cairo. Not-an-Atlas seeks to inspire, to contribute to emancipatory transformations on the ground by supporting counter-cartographies within and beyond its pages. Finally – and perhaps most importantly – we see this

88

book as a guide pointing at many possible worlds, and as an invitation to create more of them: on paper, online, and in the diverse territories in which these mappings are being engaged.

85

When we reflect on what *This Is Not an Atlas* has become since its publication, the images and emotions that come to our mind are predominantly related to encounters: the diverse co-organizers and participants of mapping events and processes in both Europe and Latin America; ○ severe but always appreciative debates; new contacts, many of which made us feel related to a network of like-minded soulmates with whom we share a common passion and practice (see Halder/Michel/Schweizer 2020). This makes us think and feel that Not-an-Atlas is, indeed, a way of relating and creating a common project in and through difference: a pluriversal cartography.

10

15

20

25

30

35

40

45

88

85

10

15

20

25

30

35

40

45

FIG. 4

Today, Not-an-Atlas is no longer a “global collection” but a meshwork of global counter-cartographies; the “global” here ought to be understood not as a single cartographic reason being globalized and universally applied, but as a condition that different actors with diverse cartographic reasons and practices share, that relates them across difference, as theorized in Edouard’s understanding of globality (Glissant 1997: 94). By sharing experiences and materials, we engage in a collective learning process based on the ongoing dialogue of diverse cartographies, for the creation of cartographic “knowledge as relationality” (Vazquez 2017: 247). Glissant’s metaphor of the woven fabric is particularly appropriate in visualizing these relations’ convergence, given that fabric’s materiality implies a warming, caring quality. Indeed, continuously sharing and co-creating among befriended activist cartographers involves more than just intellectual exchange. It is also an opportunity to practice care, solidarity, and accounta-

88 **bility.⁶ This became clearer to us in the context of the global crisis that affected all of us in 2020.**

88

ONLINE MAPPING AND PANDEMIC SOLIDARITY

What we had enjoyed most about the Not-an-Atlas network, in what was a little over a year 18 since its publication, was meeting fellow map-
15 piers in person, getting to know the realities and territories that their respective practices evolved from on the ground. In early 2020, at the onset of the COVID-19 pandemic, the network gained a renewed purpose as a plat-
18 form of remote collaboration and mutual aid. Quarantined in Germany and Brazil, we won-
20 dered how to use mapping as a tool to mobi-
25 lize communities and to organize solidarity in the face of sanitary, economic, and political crises. In fact, fellow cartographers from the 28 Not-an-Atlas network, equally quarantined in 30 their respective localities, soon approached us with very concrete requests. As a result, during 35 the year of 2020 we engaged in a range of col-
25 laborative processes jointly with activists and militant cartographers from various local con-
30 texts, all of which deployed collective online mapping to organize mutual aid and communi-
35 tary resistance in the context of the pandemic.

18

15

20

25

30

35

35

40

The resulting maps depict injustices and visualize resistance – as in the case of the global COVID-19 Global Housing Protection Legislation and Housing Justice Action Map, realized by the Anti-Eviction Mapping Project (AEMP) in collaboration with housing justice activists, cartographers, and tech activists.⁷ Alternatively, they organized solidarity action and facilitated access to mutual aid networks – as in

FIG. 5

40 06 For a captivating call to practice accountability see Mingus (2019); for a reflection on how the Anti-Eviction Mapping Project's bases its activist mapping practice on the principles of mutual aid, accountability, and embeddedness, see Graziani (2020).

45 07 (Anti-Eviction Mapping Project n.d.).

40

45

80 the case of the map Solidariedade e Assistência Social (COVID-19) – RS realized by activist geographers at UFRGS university in southern Brazil.⁸ The Not-an-Atlas network operated as a platform for exchanging experiences, knowledge, skills, and resources on direct action mapping, supporting militant struggles on the ground. Conversely, this effort showed us how much work still needs to be done in the realm of digital mapping in order to create non-corporate, secure, free and open-source digital infrastructures, apt for meeting the needs of activists and organizers.⁹

85 Rather surprisingly to us, these remote collaborations felt not so different to analog collective mapping processes. Just like in face-to-face collaborations, the common ground on which these processes were built was a highly appreciative atmosphere. Regular, often extensive meetings became spaces not only of production of a tactical tool for shared struggles, but also for sharing individual experiences – as well as for fear, anger, and hope. They turned out to be particularly empowering, as they provided a space for the creation of a common narrative of the moment of crisis and resistance we were, and are still, witnessing. In short, these collective efforts are moments of collaborative struggle, but also moments of care and joy, albeit remotely. This corresponds to the 10 observation that Rebecca Solnit recently made with regard to solidarity initiatives emerging as a response to the pandemic all over the world, when stating that engagement in solidarity makes subjects feel more fully human (Solnit 2020: xiv). Just like Solnit, this experience makes us remember Arundhati Roy's famous

08 (kollektiv orangotango 2020a).

09 The Reclus application (“Reclus: Your Counter-Mapping Friend” 2020), written by Luis Felipe Murillo, is an effort that we undertook in order to make the map “Luta pela Moradia Durante a Pandemia” (kollektiv orangotango 2020b) function without corporate tech, and to make the crowd sourcing accessible via the Tor network. Considerable work of this type will be necessary in future years to make collective online mapping free and safe.

80

85

10

15

20

18

25

30

35

40

45



- FIG. 4 ▶ Since the book's publication in 2018, we have strived to create encounters of militant cartographers, to exchange tools and knowledges, to create new collaborations and friendships.



● FIG. 5 ▶ Mapping global housing justice struggles in the light of the COVID pandemic.

20

38

25

25

30

30

35

35

40

40

45

45

phrase in which she affirms: “Another world is not only possible, she is on her way.” It is in these collective moments of caring, joyful militant mapping that we “can hear her breathing.” (Roy 2006: 86).

88

88

85

85

18

18

15

15

28

28

84

25

25

ENGAGED ONLINE CARTOGRAPHY?
 Do the online maps that accrue from these moments achieve the affinity and hope implied in these unexpected encounters? They are tactical tools for the struggles that they were created to foster. As useful as they may be in function and content, their form and aesthetics are rather conventional – residues of an old world’s cartography. From this point of view, the breathing of new worlds is hardly discernible in these maps, even though we could clearly hear it in the collective mapping process from which they were created. How come the invigorating breeze of transformation did not devolve from the process to the visualization?

While we have “other” cartographic formats and aesthetics at hand for analog mapping, as we have elucidated above, unfortunately this does not yet apply to online mapping. As Morris and Voyce state:

“GIS, GPS, and remote satellite imaging seem to have intensified the divide between top-down and bottom-up mapping, between rational, objective, and scientific representations of fixed space, on the one hand, and experiential, phenomenological, and humanistic representations of lived space, on the other” (Morris/Voyce 2015).

38

38

35

35

In addition to the aforementioned examples of creating purposeful critical online maps, as activists and popular educators we are increasingly pushed to develop online formats for process-oriented collective mapping activities.

48

48

In recent months, rather unwittingly, we have

45

45

88

85

10

15

20

25

30

35

40

45

88

85

10

15

20

25

30

35

40

45

developed formats for collective mapping that timidly try to integrate our ambitions to enrich the toolbox of collectively designing maps into online formats, even though we are largely unfamiliar with advanced digital mapping tools. What were especially heartening in this regard were the cartographic processes that we organized in collaboration with befriended activists, artists, and cartographers – the Mexican feminist geographers Geobrujas¹⁰, the São Paulo-based artist-activist Grupo Contrafilé¹¹, as well as the artist and militant researcher Cristina Ribas¹² – and from which arose a regular online meeting of exchange and cartographic self-education.

As for analog mapping, we realized that the strict adherence to Cartesian space was not helpful for many of the mapping set-ups with which we work. Consequently, instead of working with georeferencing mapping tools, such as OSM, we started to work with online whiteboard tools. Here, exported map tiles may serve as map basis, just as single-colored backgrounds or image files. ○ A combination of freehand drawing and collage elements offer great possibilities when it comes to designing collective mappings on paper. The easy access to online imagery and the simple handling of vector graphics allow for new experiences, not to mention the possibilities of embedding audio and video content into maps. Yet, in spite of these advantages, the design possibilities of tools that can be used in groups without coding expertise are limited. This is the case especially for the few free and open-source solutions that, in this field, lag far behind their corporate-tech equivalents.

FIG. 6

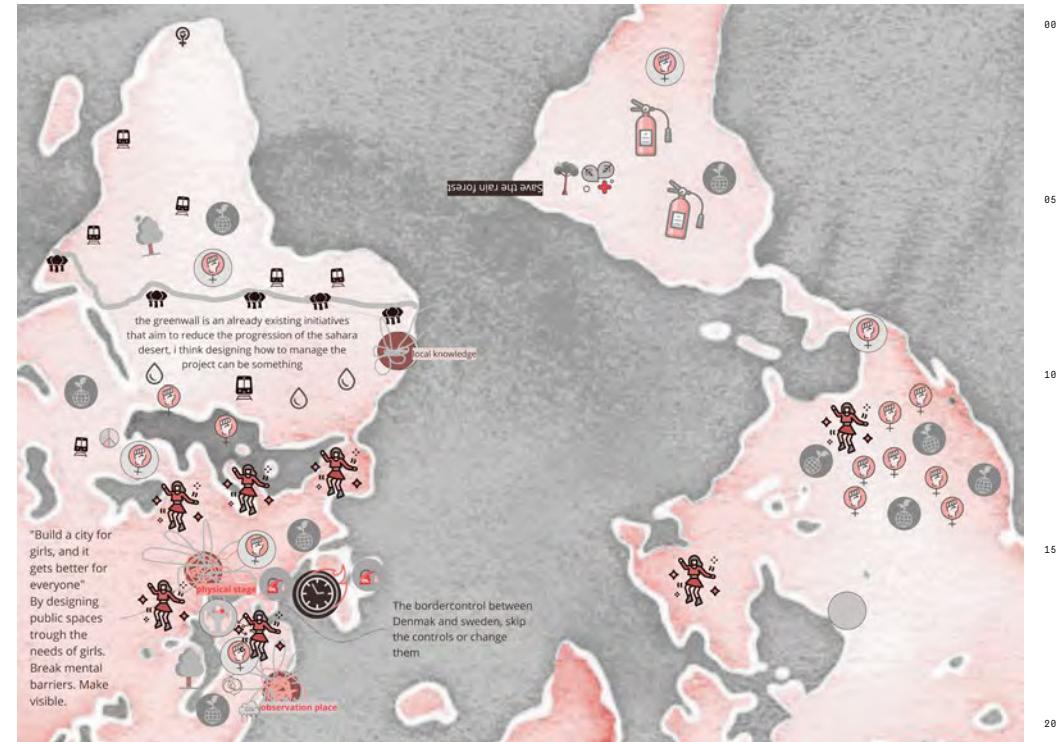
58

10 (“GeoBrujas - Comunidad de Geógrafas” n.d.), see also their contribution to the ESTEPA mapping guide (Hernández-Cantarell et al. 2019).

11 (“Grupo Contrafilé” n.d.).

12 (“Cristina Ribas” n.d.), we strongly recommend reading Cristina’s reflection on complexity and cartography (Ribas 2014).

SHIFTS IN MAPPING



86 ● FIG.6 ► Collective online mapping offers, indeed, a wide range of design possibilities. As in mapping on paper, icons, text, and freehand drawing can be combined to discuss, in this example, where co-mappers want to promote social, political, and environmental change [edited by kollektiv orangotango].

25

25

30

30

35

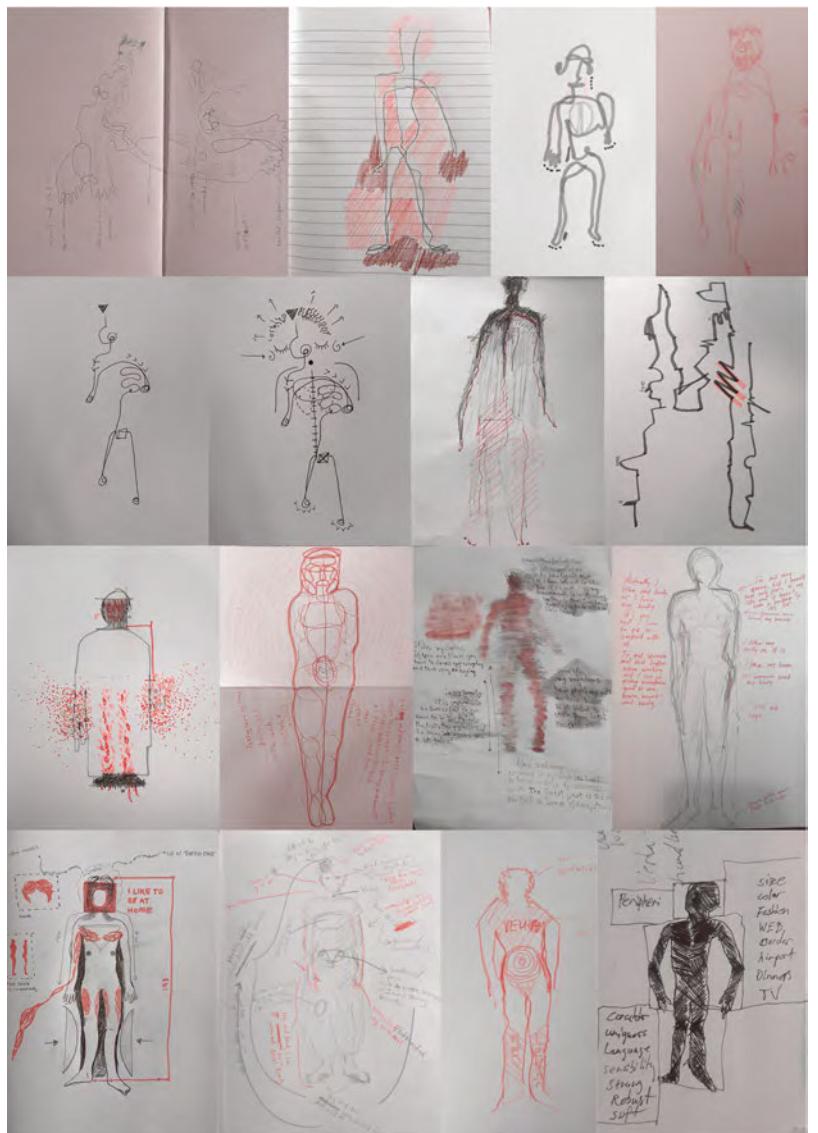
35

40

40

45

45



● FIG. 7 ▶ Combining digital and analog, collective and individual formats may facilitate the integration of multiple knowledges into online collective mapping, as experienced when sharing these body mappings in a workshop held online.

As discussed with respect to analog mapping, we try to integrate performative elements into online maps, both by using the whiteboard map as a playing field on which participants can move elements simultaneously, thereby creating a ludic dynamic that is favorable to unexpected outcomes and through the combination of mapping and video-conference tools that offer limited, but nonetheless valuable, possibilities of performative expression. While it is difficult to create safe spaces within these online maps, in our experience, it is wise to combine collective online with individual offline moments, and to encourage co-mappers to share subjective and personal experiences on the map, whilst offering sufficient freedom to not do so. For instance, we facilitated body mapping exercises that co-mappers would do for themselves on paper while listening to our facilitating voice. ○ Afterwards, they shared their individual maps on the whiteboard, where connections, common experiences, and possible support strategies were collectively mapped.

FIG. 7

These experiences make us feel that online mapping processes can serve as tools for engaged cartography, integrating mind, heart, and multiple senses, for building affinity groups, and for representing solidarity on the map. Thus, it will be our continued objective to combine insights from analog and digital mapping processes in order to invent new cartographic languages that are apt for collectively mapping possible worlds.

Having said this, we conclude by remarking that mapping is never an end in itself, just a means to this end. As the Iconoclastas emphasize, its full potential unfolds only as a strategic part of a larger movement, namely when knowledge is exchanged, networks are created, or when resistance becomes visible (iconoclastas 2013). If the “map is not the territory” (Korzybski 2005, 750), then the mapping itself cannot be the transformation.

→VIDEO LINK

88 ESCOBAR, ARTURO (2020):
Pluriversal Politics: The Real and the Possible.
Durham: Duke University Press.

85 FREIRE, PAULO (2000):
Pedagogy of the Oppressed. 30th anniversary ed.
New York: Continuum.

85 "GeoBrujas - Comunidad de Geógrafas." n.d.
Facebook. Accessed October 26, 2020. <https://www.facebook.com/geobrujas/>.

10 GLISSANT, ÉDOUARD (1997):
Poetics of Relation, Betsy Wing (Transl.). Ann Arbor:
University of Michigan Press.

10 GLISSANT, ÉDOUARD (2013):
Kultur und Identität: Ansätze zu einer Poetik der Vielheit, Beate Thill (Transl.). 2. Auflage. Heidelberg:
Wunderhorn.

15 GRAZIANI, TERRA, MARY SHI (2020):
"Data for Justice: Tensions and Lessons from the Anti-Eviction Mapping Project's Work between Academia and Activism." In: *ACME: An International Journal for Critical Geographies* 19/1: 397-412.

15 "GRUPO CONTRAFILÉ" (N.D.):
Issuu. Accessed October 26, 2020. <https://issuu.com/grupocontrafile?fbclid=IwAR2D2XwwRB6lvXsy0pj7nYuLFAhBtyfJhmSyDuoichgVZ4TvhZRPLwf3w>.

20 HALDER, SEVERIN (2018):
Gemeinsam Die Hände Dreckig Machen: Aktionsforschungen Im Aktivistischen Kontext Urbaner Gärten Und Kollektiver Kartierungen. Sozial- Und Kulturgeographie, Band 27. Bielefeld: Transcript.

25 HALDER, SEVERIN (2020):
BORIS MICHEL/PAUL SCHWEIZER
"Is This Is Not an Atlas an Atlas? On the Pitfalls of Editing a Global Collection of Counter-Cartographies." In: *Cartographica: The International Journal for Geographic Information and Geovisualization* 55/3: 207-14. <https://doi.org/10.3138/cart-2019-0011>.

30 HERNÁNDEZ-CANTARELL, ADRIANA (2019):
SPERANZA GONZÁLEZ-HERNÁNDEZ/GIULIA MARCHESE/FRIDA ITZEL-RIVERA-JUÁREZ/KARLA HELENA GUZMÁN-VELÁZQUEZ/VALERIA YSUNZA PÉREZ-GIL
"Análisis Territorial de Un Espacio de Violencia En La Ciudad: Geobrujas, Comunidad de Geógrafas." In: Gabriela Fenner-Sánchez/Julieth Monroy-Hernández/Javier Enrique Aguilar-Galindo/Susana Barrera-Lobat (Eds.) *Acciones Para La Construcción de Nuevas Narrativas Territoriales*,ón, ll9-28. Taller Internacional de Creación Cartográfica 2. Bogotá: Grupo de Investigación Espacio, Tecnología y Participación (ESTEPA).

35 HOOKS, BELL (2010):
Teaching Critical Thinking: Practical Wisdom, New York: Routledge.

88

ICONOCLASISTAS (2013): 88
 Manual de Mapeo Colectivo: Recursos Cartográficos Críticos Para Procesos Territoriales de Creación Colaborativa. Buenos Aires: Tinta Limón.

INGOLD, TIM (2008): 85
Lines: A Brief History. Repr. London: Routledge.

KOLLEKTIV ORANGOTANGO+, (EDS.) (2018): 85
 This Is Not an Atlas: A Global Collection of Counter-Cartographies. In: *Social and Cultural Geography*, Volume 26. Bielefeld: transcript.

KOLLEKTIV ORANGOTANGO (2020A): 10
 “Solidariedade e Assistência Social (Covid-19) - RS.”

CARTO. 2020. <https://ko.carto.com/builder/78d75ce0-05f2-46fd-b57f-a07bca0d4aca/embed>.

KOLLEKTIV ORANGOTANGO (2020B): 10
 “Luta Pela Moradia Durante a Pandemia.” *This Is Not an Atlas* (blog). August 1, 2020. <https://notanatlas.org/mapa-moradia-covid/>.

KOLLEKTIV ORANGOTANGO (N.D.): 15
 “Manuals.” *Kollektiv Orangotango* (blog). Accessed October 26, 2020a. <https://orangotango.info/category/mapping-materials/manuals/>.

KOLLEKTIV ORANGOTANGO (N.D.): 15
 “Videos.” *This Is Not an Atlas* (blog). Accessed October 26, 2020b. <https://notanatlas.org/videos/>.

KORZYBSKI, ALFRED (2005 [1933]): 20
Science and Sanity: An Introduction to Non-Aristotelian Systems and General Semantics, 5. ed., 3rd print. Brooklyn, NY: Inst. of General Semantics.

KRYGIER, JOHN B. (1994): 16
 “Chapter 8 - Sound and Geographic Visualization.” In: *Modern Cartography Series*. In: Alan Maceachren/D. R. Fraser Taylor (Eds.) *Visualization in Modern Cartography*, 2. Pp. 149-166. Academic Press. <https://doi.org/10.1016/B978-0-08-042415-6.50015-6>.

MANSILLA QUIÑONES/ (2019): 25
 PABLO ARTURO/MIGUEL MELIN PEHUEN
 “A Struggle for Territory, a Struggle Against Borders: The Mapuche Conflict in Argentina and Chile Contests Notions of Borders Promulgated by the Nation-State. Their Territorial Dispute Encompasses Not Only Material Control over Land, but Also a Fight to Define Its Nature and Use.” In: *NACLA Report on the Americas* 51/1: 41-48. <https://doi.org/10.1080/10714839.2019.1593689>.

MANSILLA QUIÑONES, PABLO/ (2019): 30
 MIGUEL MELÍN PEHUÉN/MANUELA ROYO LETELIER
Cartografía Cultural Del Wallmapu: Elementos Para Descolonizar El Mapa En Territorio Mapuche. Primera edición. Santiago de Chile: LOM Ediciones.

85

10

15

20

25

30

35

40

45

88

85

10

15

20

16

25

30

35

40

45

88 MINGUS, MIA (2019): “Dreaming Accountability.” In: *Leaving Evidence* (blog). May 5, 2019. <https://leavingevidence.wordpress.com/2019/05/05/dreaming-accountability-dreaming-a-returning-to-ourselves-and-each-other/>.

85 MORRIS, DEE, AND STEPHEN VOYCE (2015): “Embodied Mapping, Locative Mapping, and New Media Poetics.” *Jacket2* (blog). <https://jacket2.org/commentary/embodied-mapping-locative-mapping-and-new-media-poetics>.

10 MOTTA, SARA (2015): “21st Century Emancipation: Pedagogies in and from the Margins.” In: Antonia Kupfer (Ed.) *Power and Education: Contexts of Oppression and Opportunity*, London: Palgrave Macmillan UK pp. 169-93. <http://link.springer.com/10.1057/9781137415356>.

15 OLMEDO, ELISE (2018): “The Materiality Language of Cartography - Textile Maps of Moroccan Working-Class Neighbourhood in Marrakech.” In: kollektiv orangotango+ (Ed.) *This Is Not an Atlas: A Global Collection of Counter-Cartographies, Social and Cultural Geography*, Volume 26. Bielefeld: transcript, pp. 264-69.

20 OSLENDER, ULRICH (2019): “Geographies of the Pluriverse: Decolonial Thinking and Ontological Conflict on Colombia’s Pacific Coast.” *Annals of the American Association of Geographers* 109/6: 1691-1705. <https://doi.org/10.1080/24694452.2019.1572491>.

25 “RECLUS: YOUR COUNTER-MAPPING FRIEND.” (2020): <https://reclus.mapacovid19.online/>.

28 REITER, BERND, (ED.) (2018): *Constructing the Pluriverse. The Geopolitics of Knowledge*, Durham: Duke University Press.

30 RIBAS, CRISTINA (2014): “Complexidade.” In: Cristina Ribas/Sara Uchoa (Eds.) *Vocabulário político para processos estéticos*, pp. 89-106. Rio de Janeiro: Vocabpol.

35 ROSE-REDWOOD, REUBEN/ NATCHEE BLU BARND/ANNITA HETOEVÉHO-TOHKE’E LUCCHESI/SHARON DIAS/ WIL PATRICK (2020): “Decolonizing the Map: Recentering Indigenous Mappings.” In: *Cartographica: The International Journal for Geographic Information and Geovisualization* 55/3: 151-62. <https://doi.org/10.3138/cart.53.3.intro>.

40 ROY, ARUNDHATI (2006): *An Ordinary Person’s Guide to Empire*, New Delhi: Penguin. https://archive.org/details/isbn_9780144001606.

88

SCOTT, JAMES C (1998): Seeing like a State: How Certain Schemes to Improve the Human Condition Have Failed, *Yale Agrarian Studies*. New Haven: Yale University Press.

SOLNIT, REBECCA (2020): "Foreword." In: Marina Sitrin/Colectiva Sembrar (Eds.) *Pandemic Solidarity: Mutual Aid during the Covid-19 Crisis*. London: Pluto Press. Pp. xi-xxiv.

VAZQUEZ, ROLANDO (2017): "Precedence, Earth and the Anthropocene: Decolonizing Design." In: *Design Philosophy Papers* 15/1: 77-91. <https://doi.org/10.1080/14487136.2017.1303130>.

ZIBECHI, RAÚL (2011): *Territorien des Widerstands: Eine politische Kartografie der urbanen Peripherien Lateinamerikas*, Kirsten Achtelik/Huberta von Wangenheim (Transl.). Auflage: 1. Berlin u.a.: Assoziation A.

85

10

15

20

25

30

35

40

45

88

85

10

15

20

30

25

35

40

45

