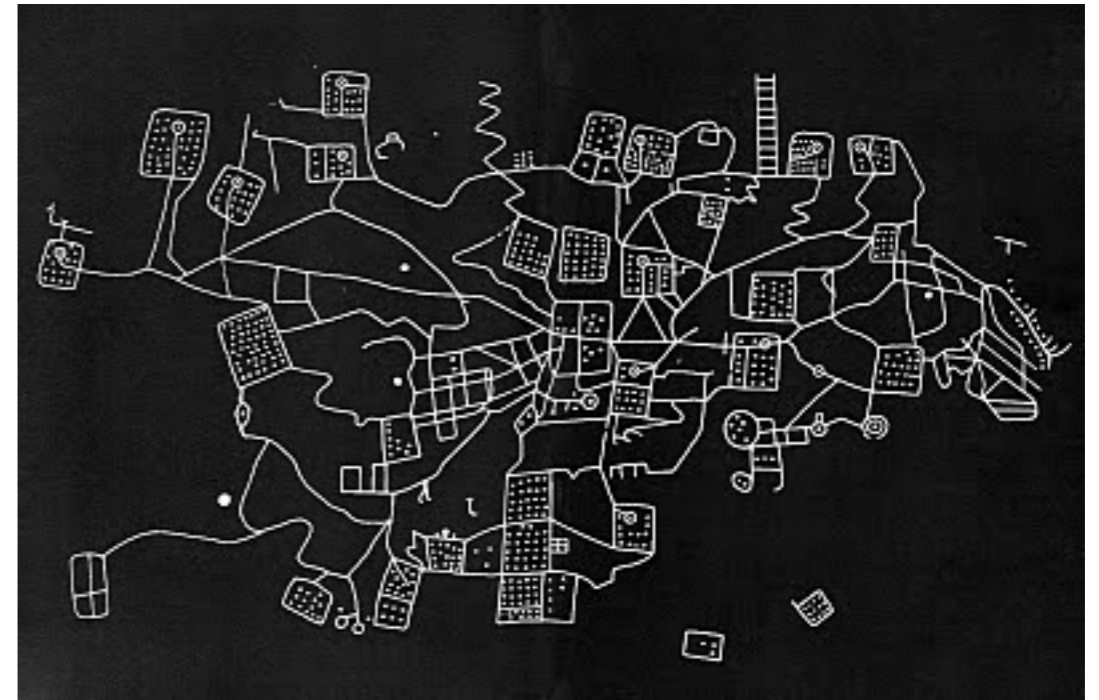
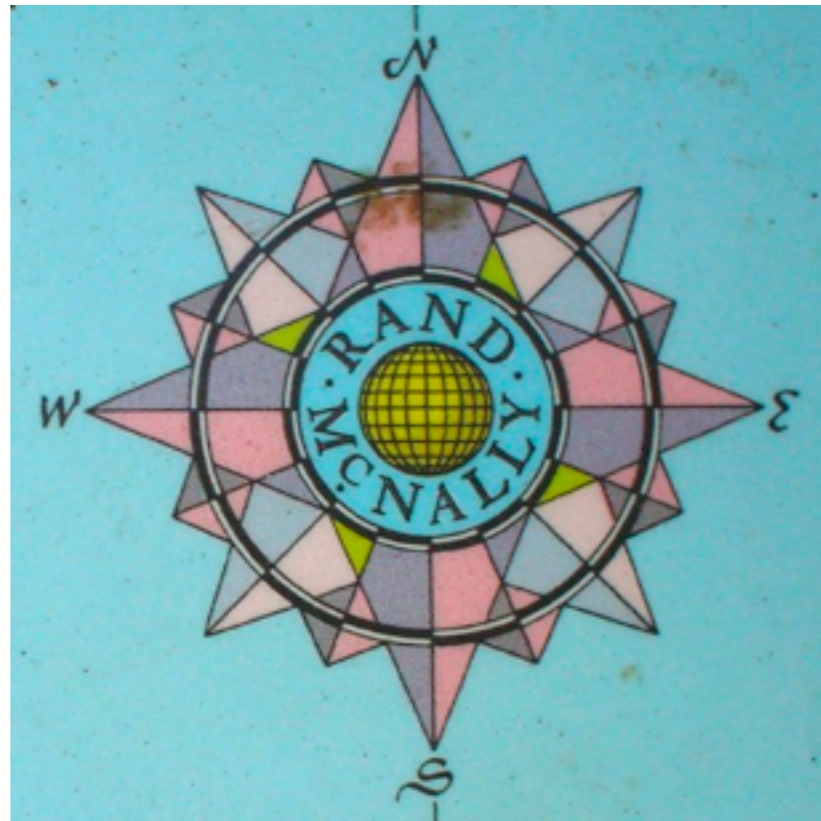


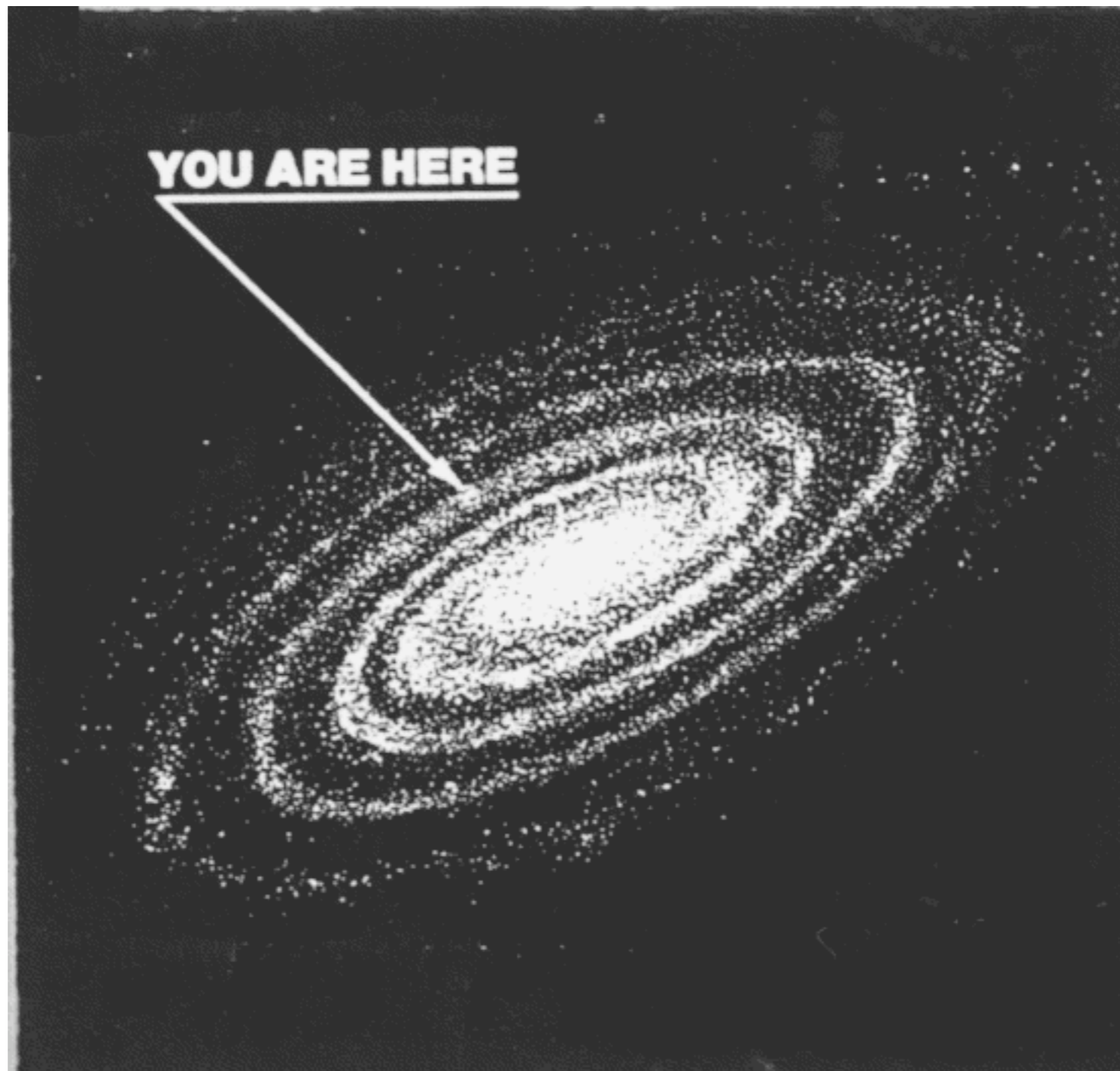
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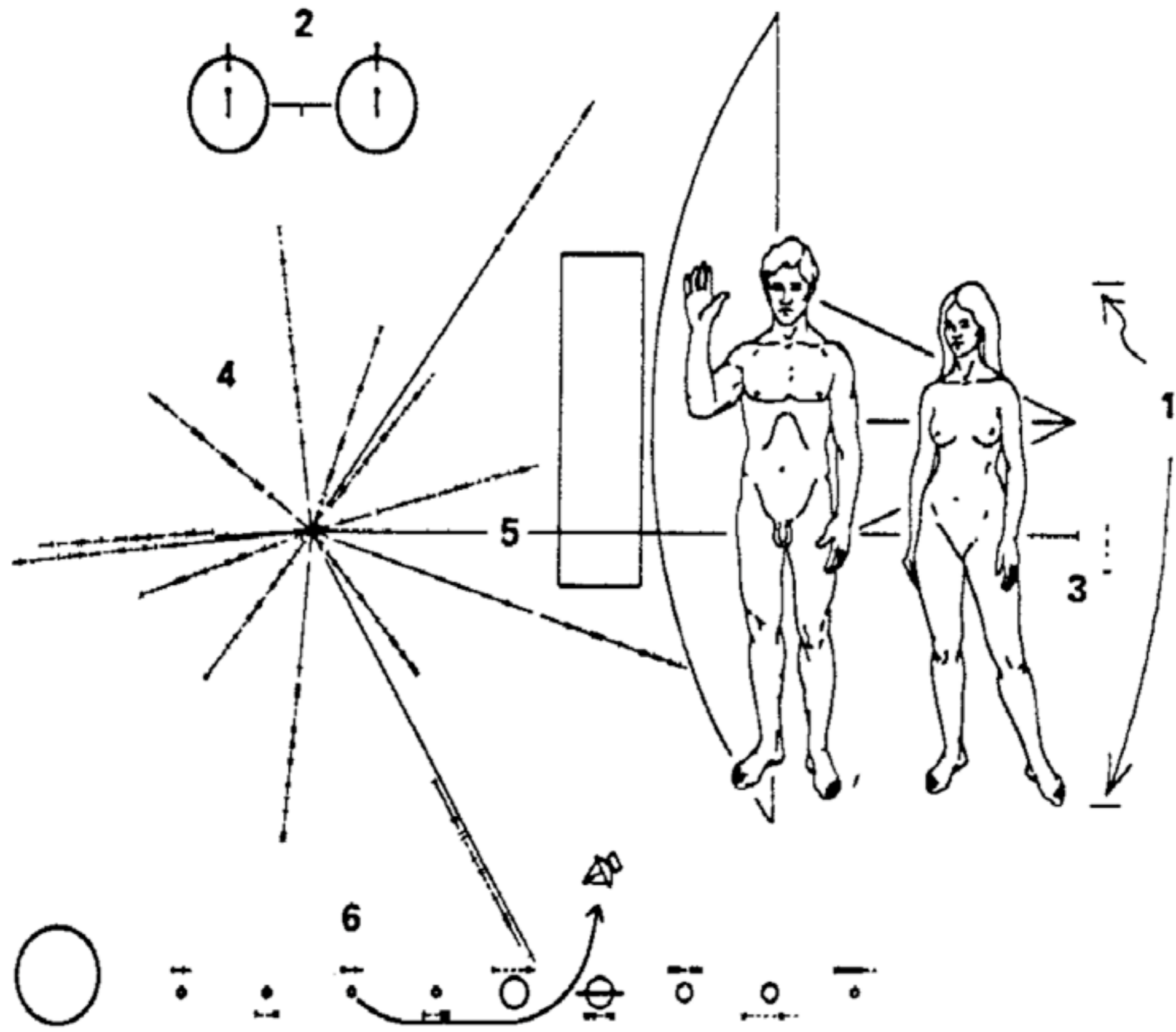




what/how?  
map vs. picture

# Spatial

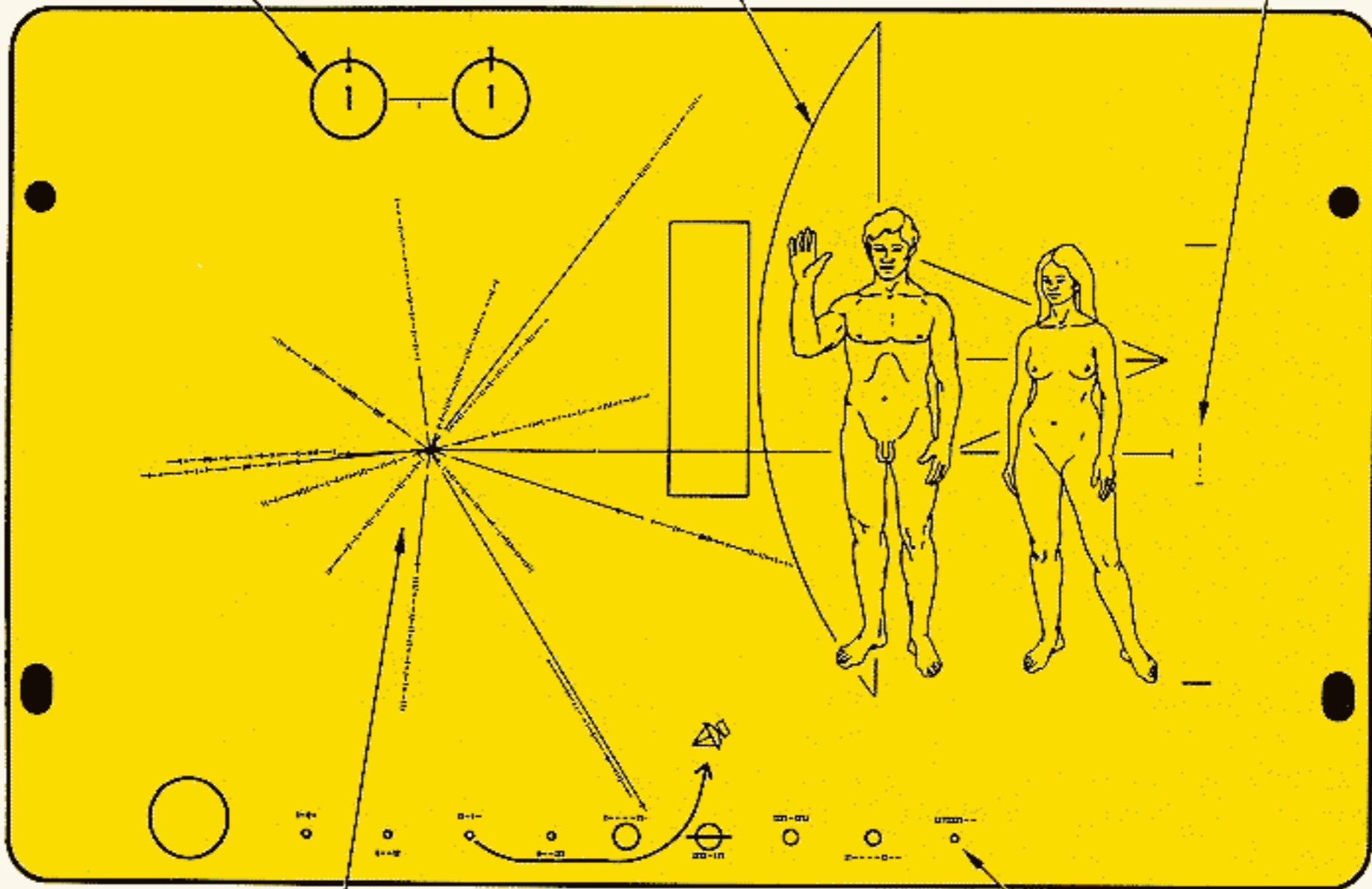




HYPERFINE TRANSITION OF  
NEUTRAL HYDROGEN

SILHOUETTE OF  
SPACECRAFT

BINARY EQUIVALENT  
OF DECIMAL 8



POSITION OF SUN  
RELATIVE TO 14  
PULSARS AND THE  
CENTER OF THE GALAXY

PLANETS OF SOLAR  
SYSTEM AND BINARY  
RELATIVE DISTANCES



# THE LONDON UNDERGROUND

- Interchange with other Lines
- ⊕ Interchange with British Rail
- ⊕ (with star) Interchange with British Rail within walking distance
- ↑ Open Mondays to Fridays, peak hours only
- ★ Closed on Sundays
- ⊠ Closed on Saturdays and Sundays
- Certain stations are also closed on Public Holidays
- Nearest stations for the Round London Sightseeing Tour
- Ⓧ EUSTON Stations named in red have Travel Enquiry Offices
- ▲ Piccadilly Line trains stop here early morning and late evening Mondays to Saturdays and all day Sundays

**LINE TYPES**

- VICTORIA LINE
- CENTRAL LINE
- CIRCLE LINE
- PICCADILLY LINE
- NORTHERN LINE
- BAKERLOO LINE
- DISTRICT LINE
- METROPOLITAN LINE
- BRITISH RAIL

**Other Services:**

- Underground paths only
- Exhibition Service only
- East London Section

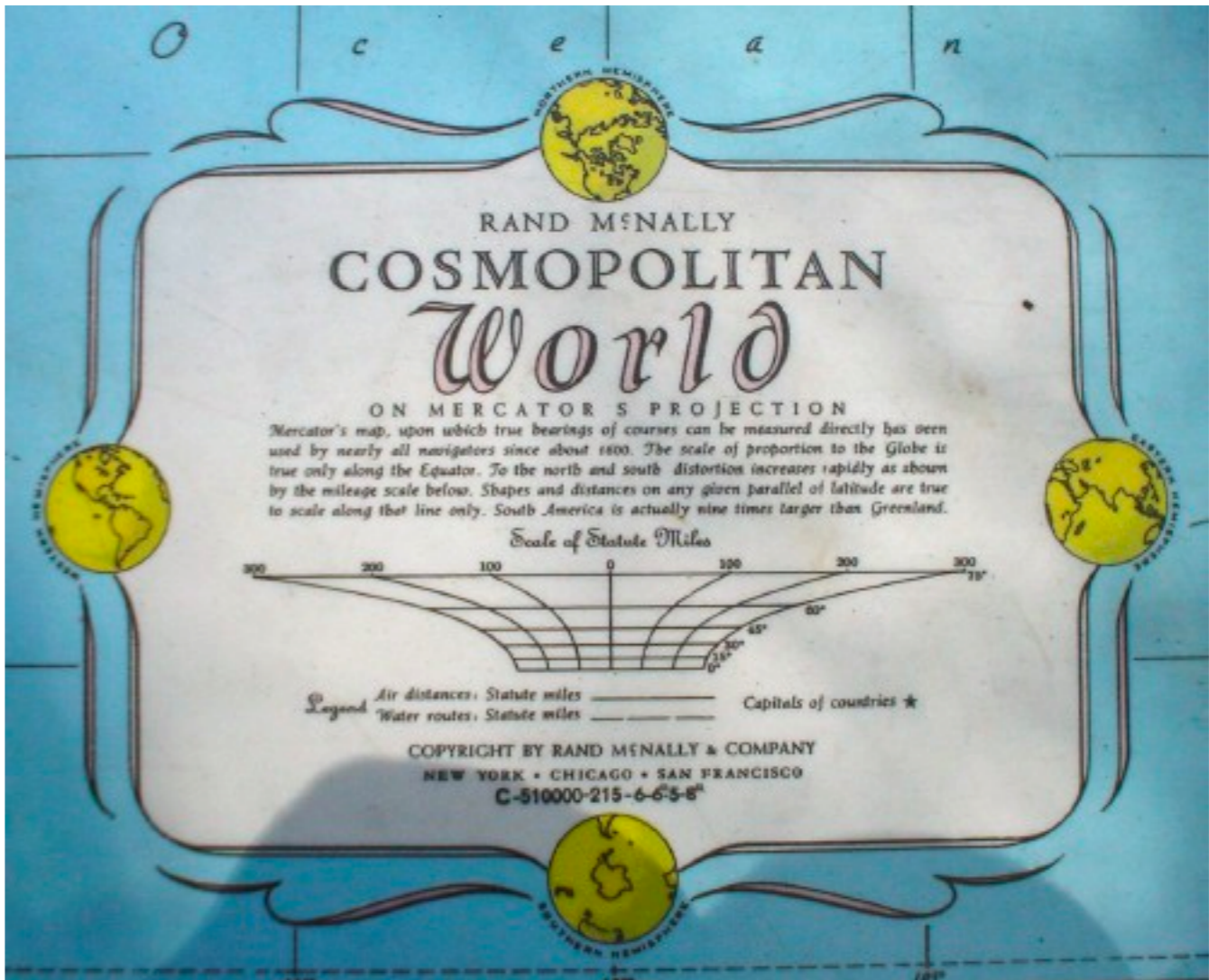
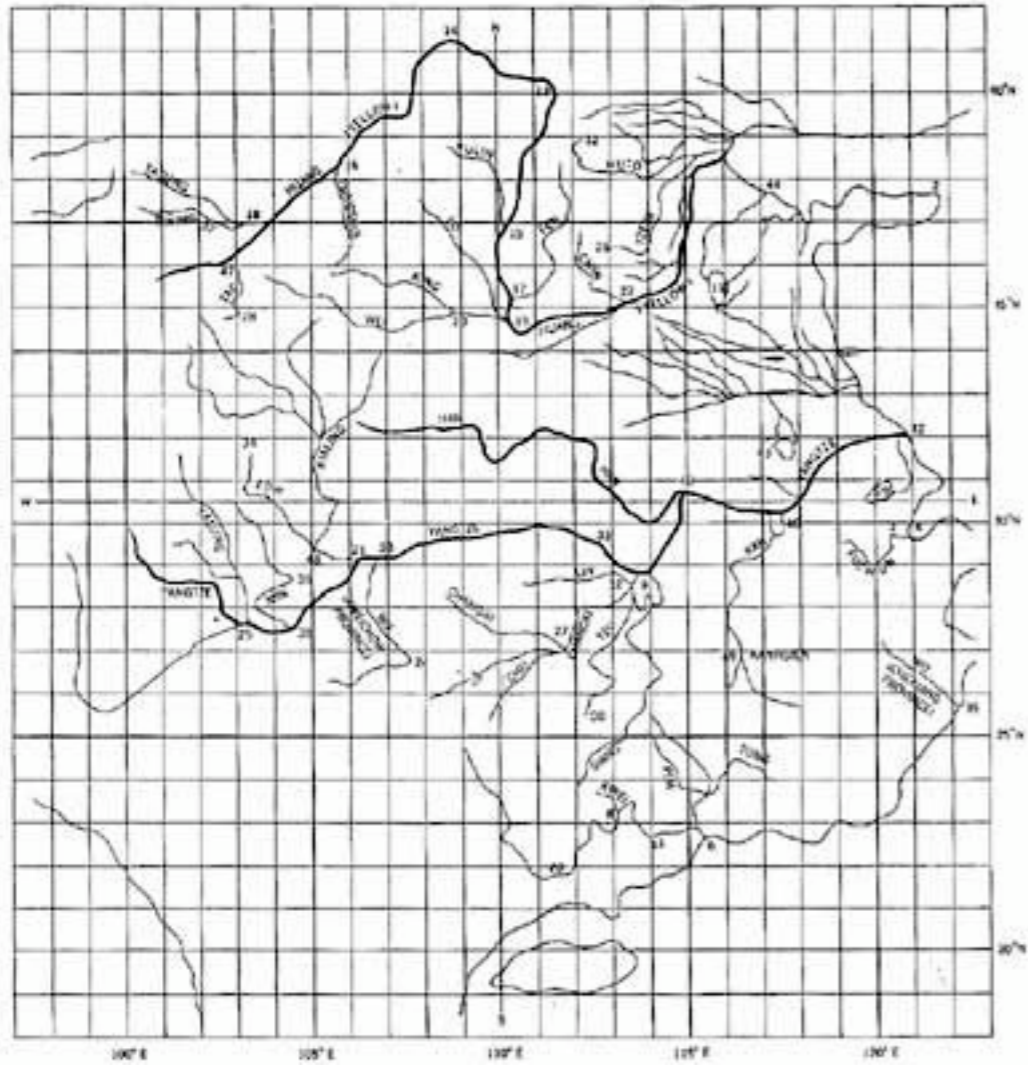
Ⓧ NORTH LONDON LINE  
 Brondesbury Park (not Brondesbury)  
 is CLOSED on Sundays.



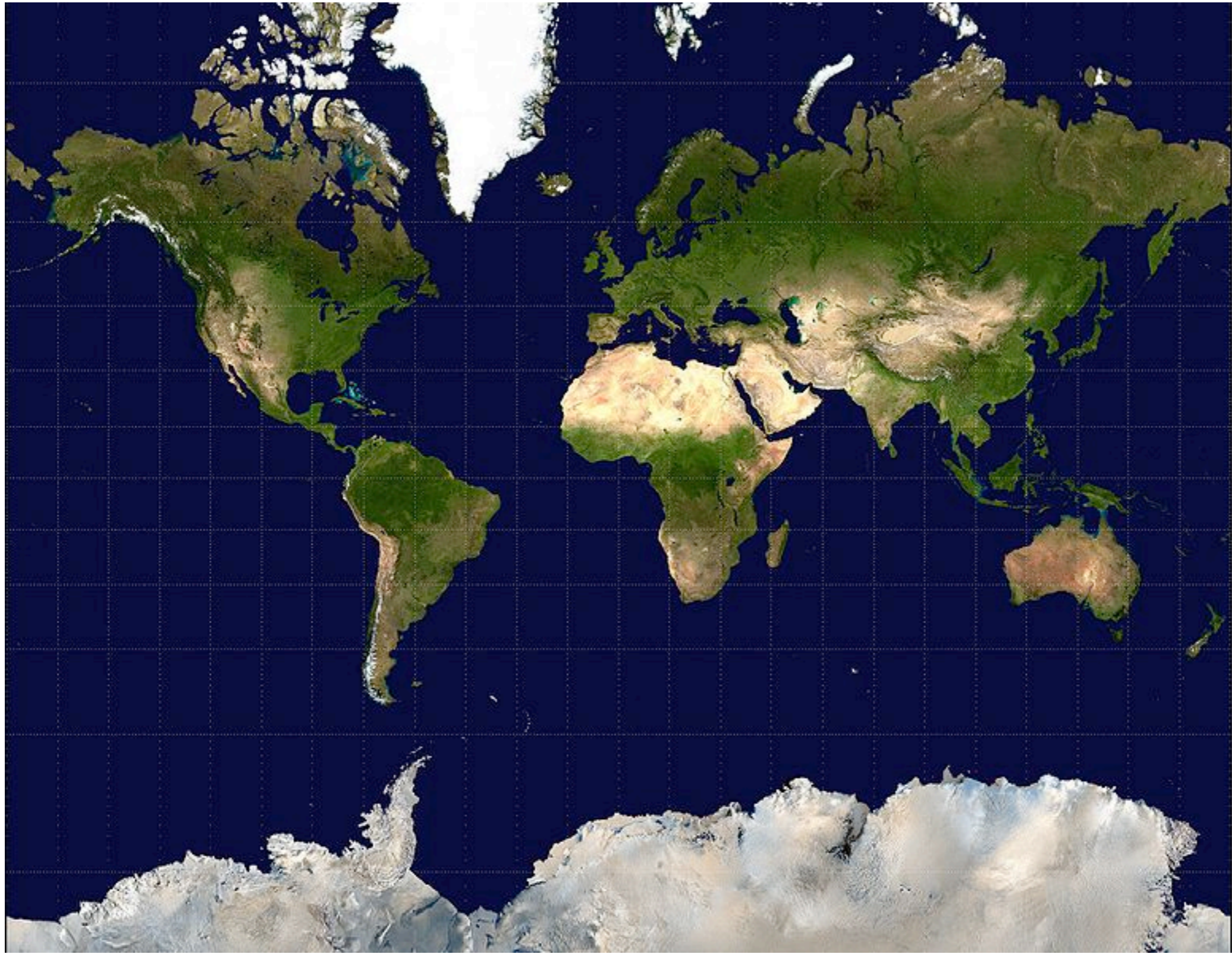
# The Great Bear

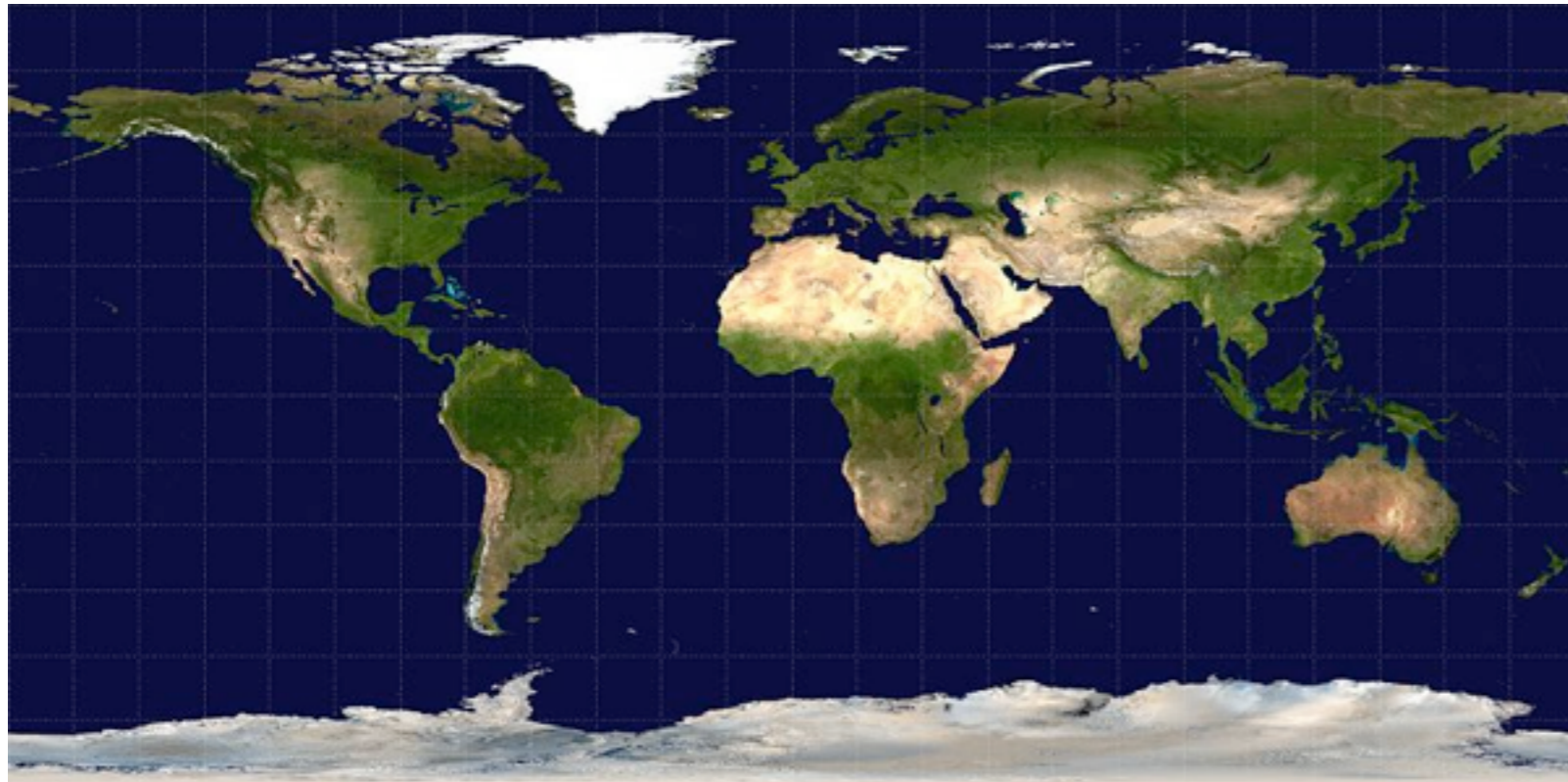
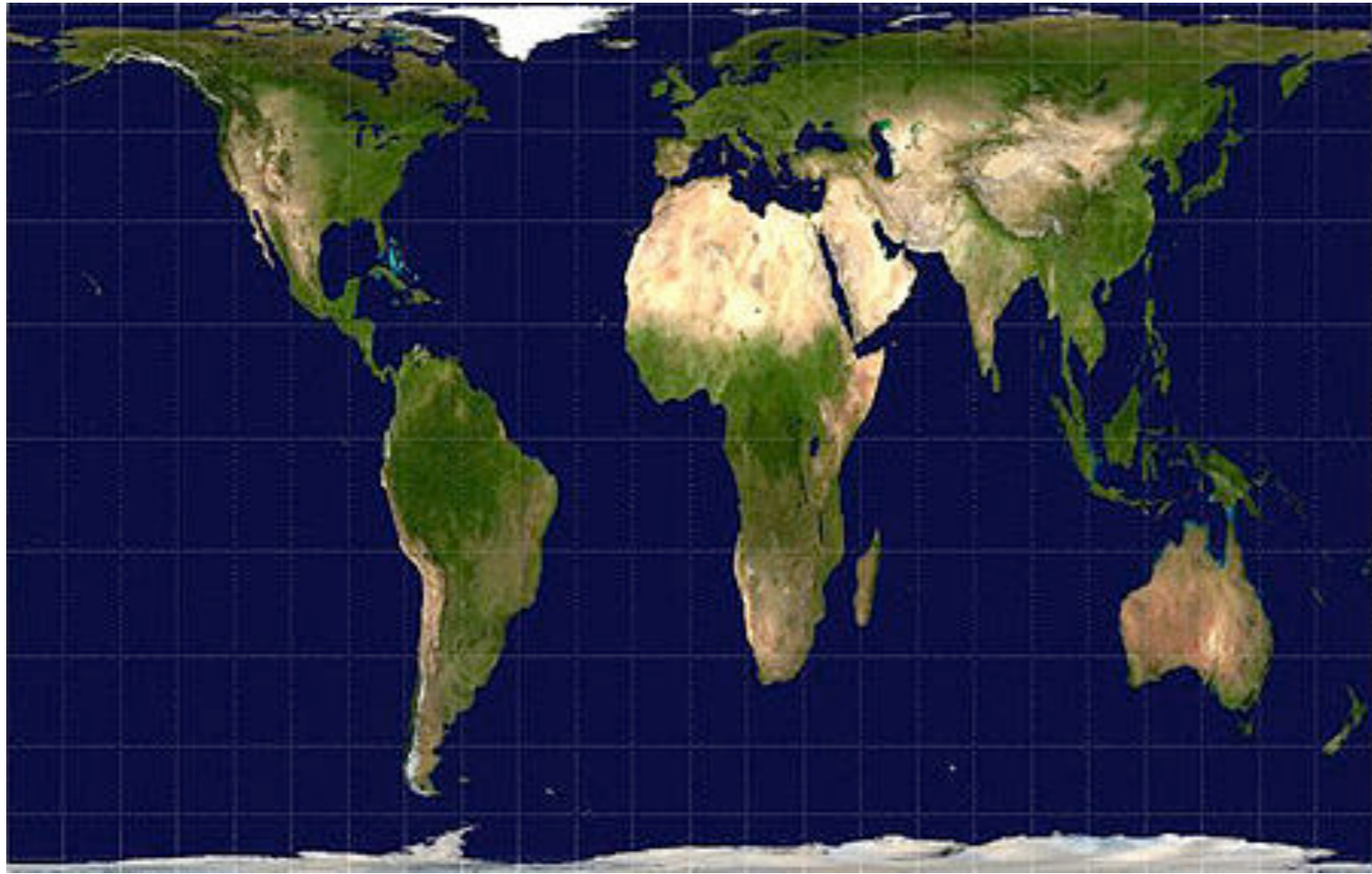


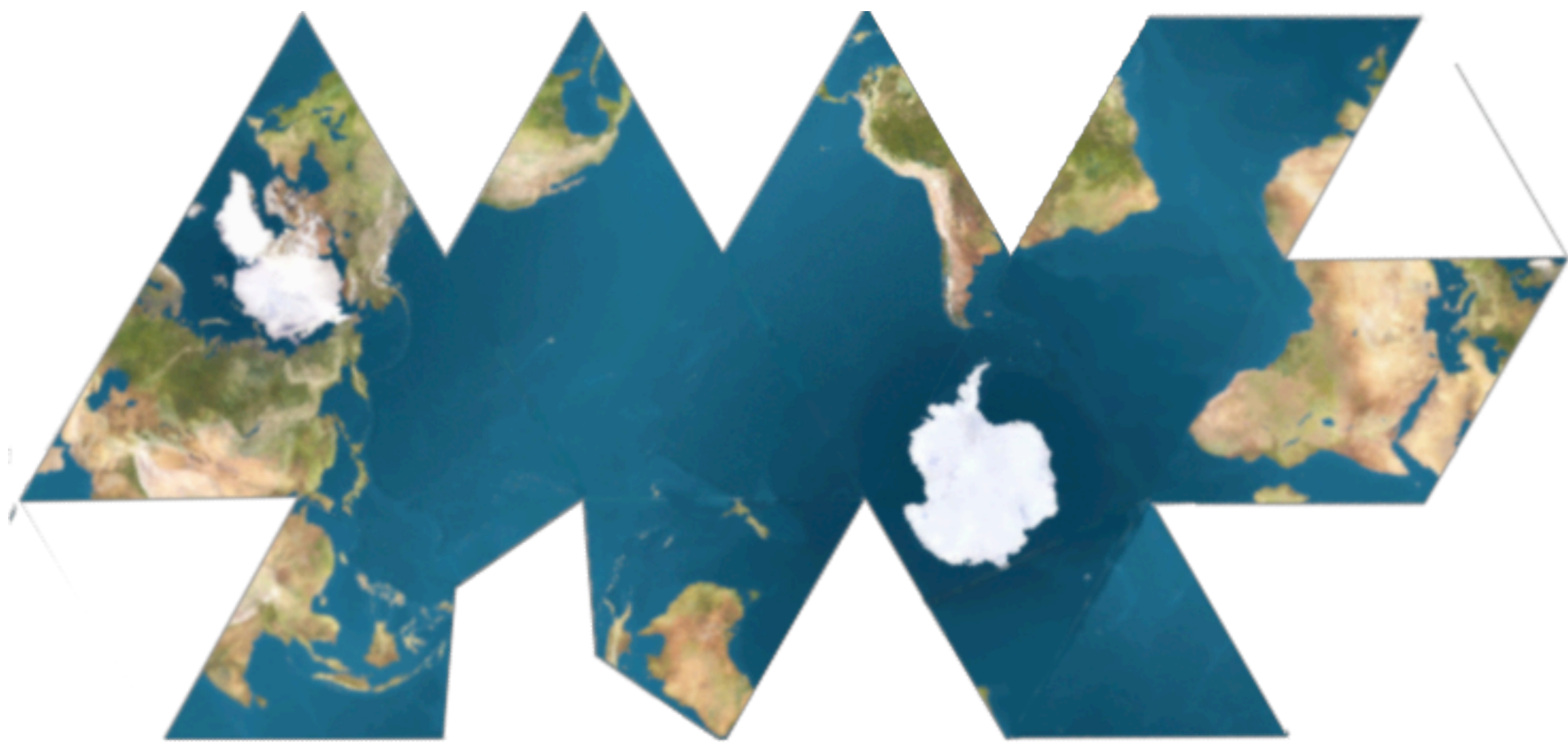
# Conventional

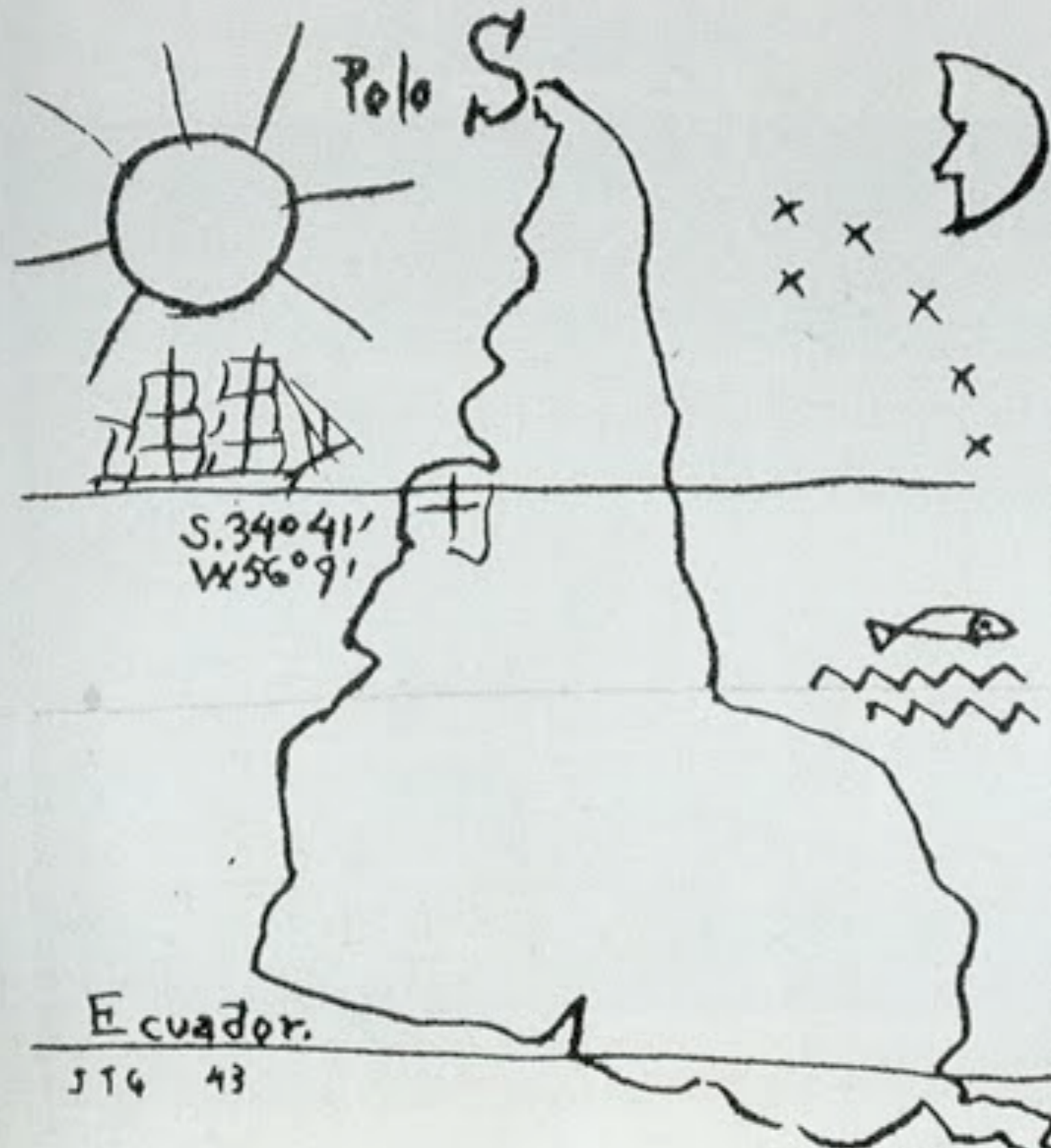


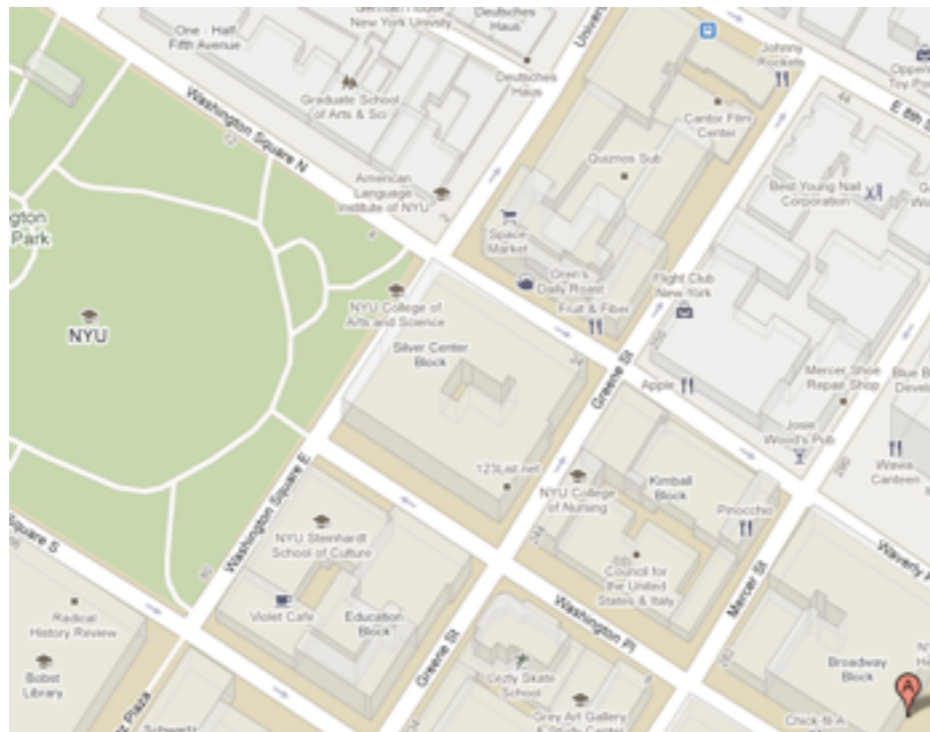
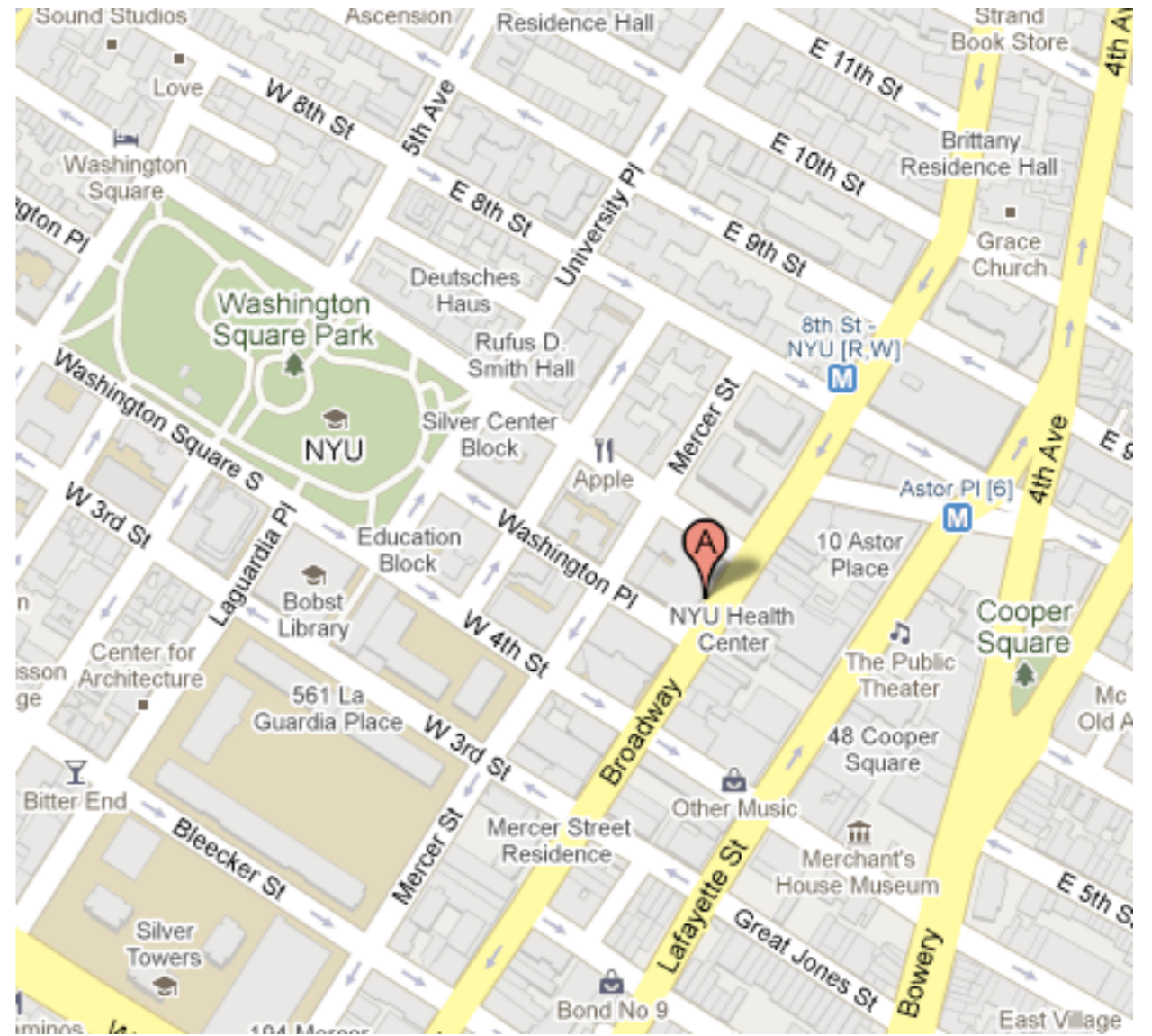




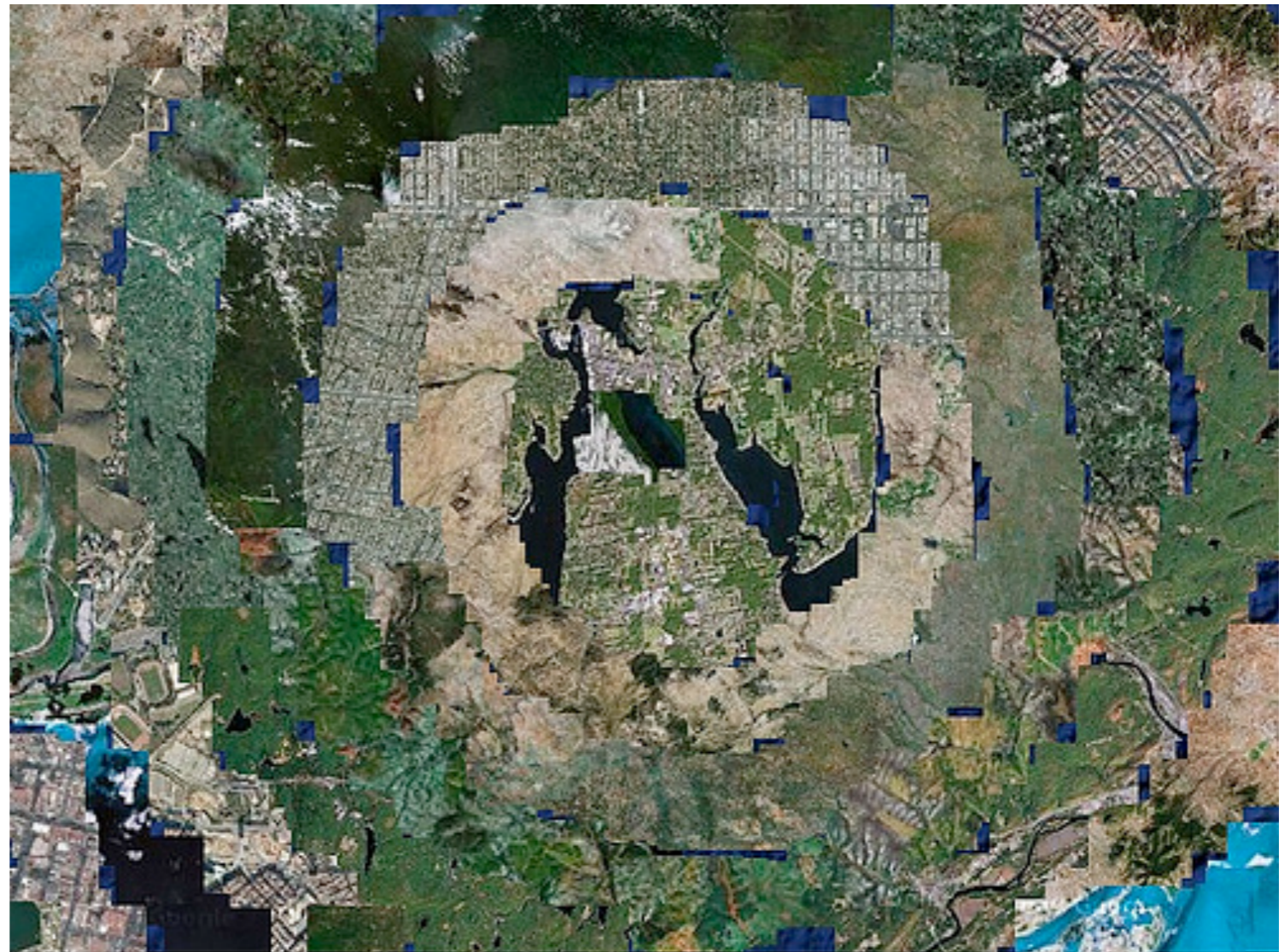
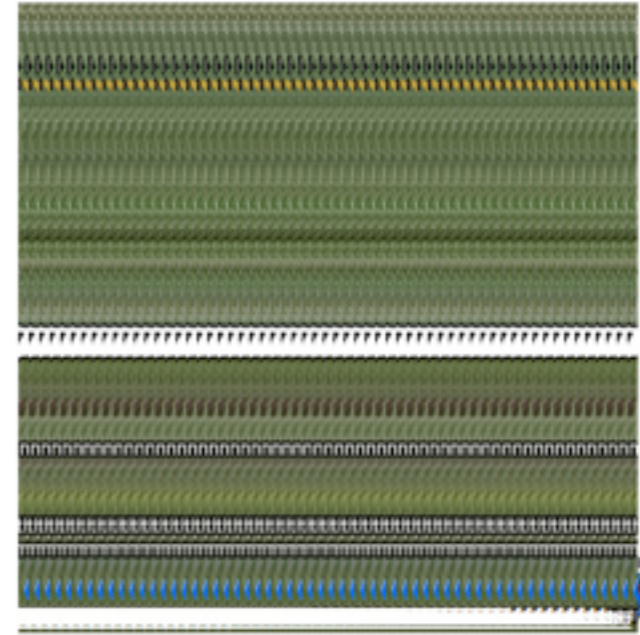
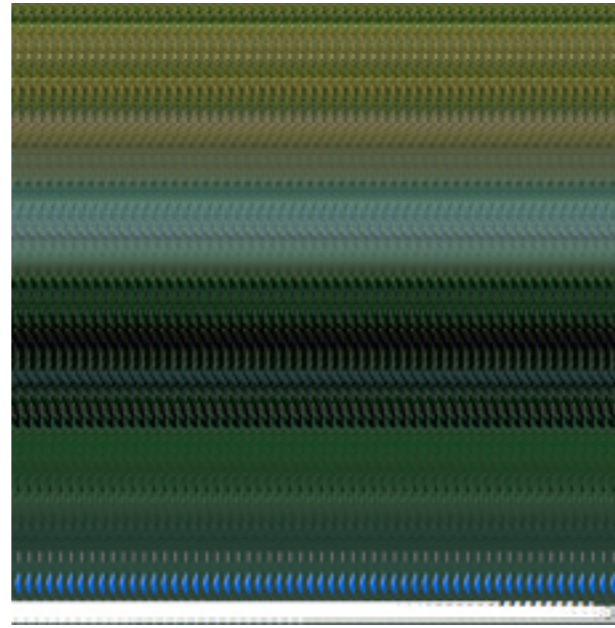
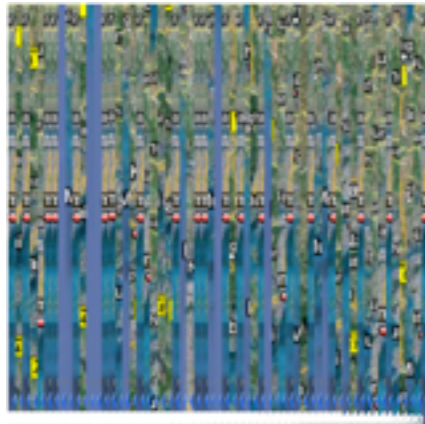
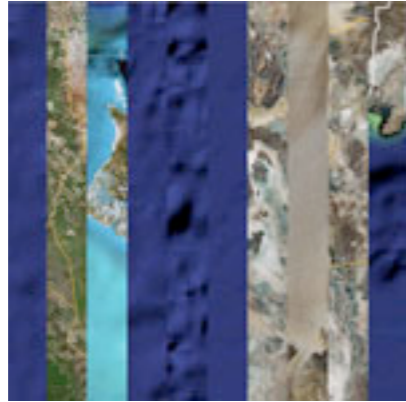






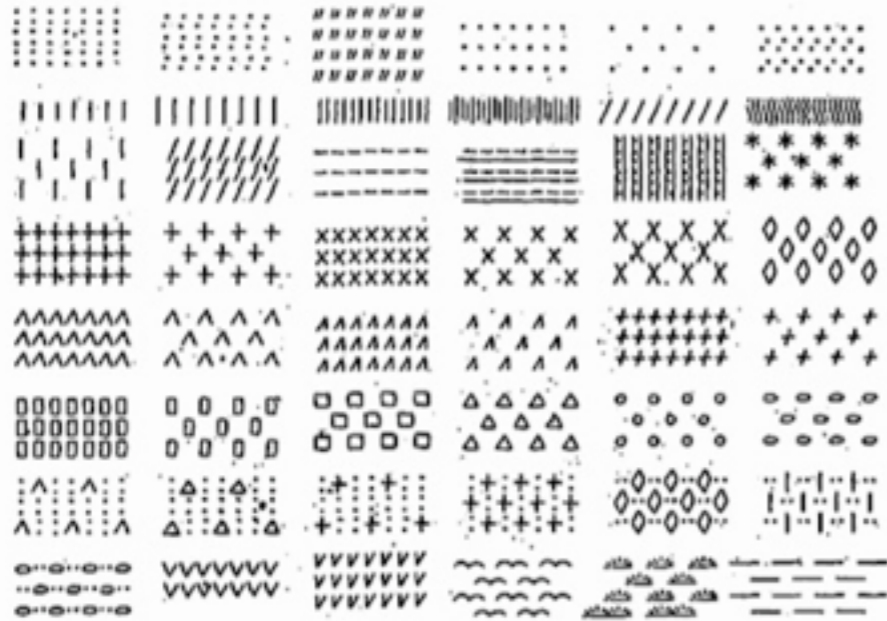


# Imagined Locations Toolset

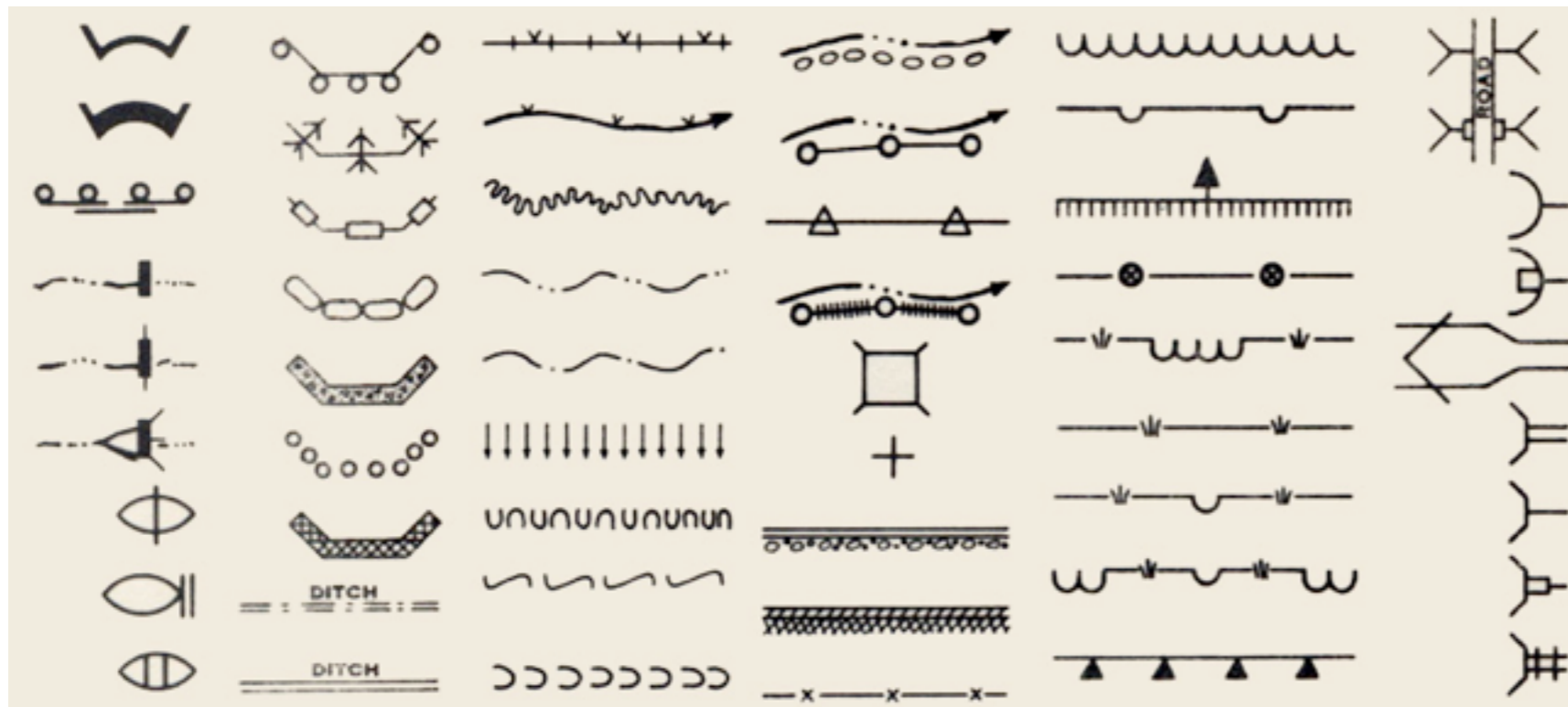
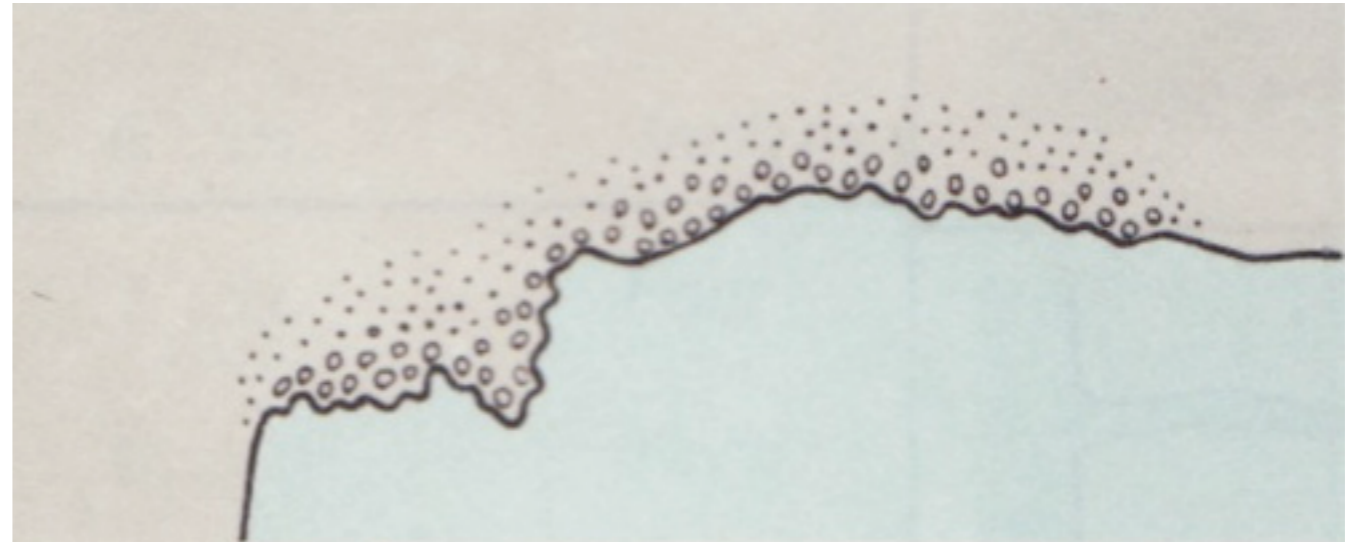


A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
 a b c d e f g h i j k l m n o p q r s t u v w x y z  
 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0  
 Locality marks                   ⊙ ⊙ X † □ □ \*  
 Triangulation station etc       ↑ † △ ▲ ⊙




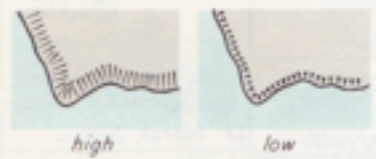









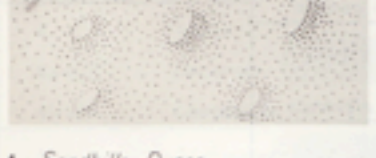

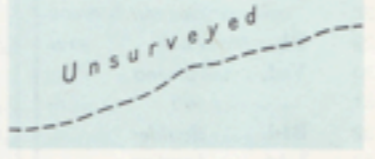



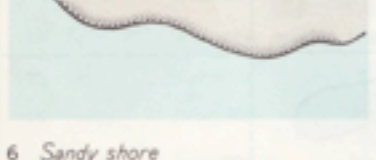



Samples of general purpose legends





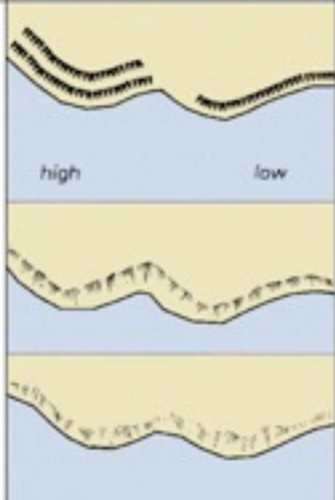
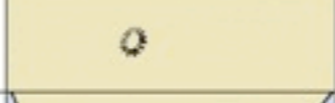


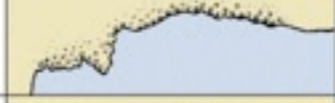

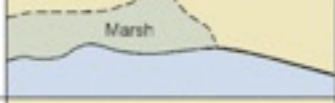

# Reductive



# A. The Coastline (Nature of the Coast)

 1 Shoreline unsurveyed	 7 Mangrove	 11e Sand and mud
 2 Steep coast (Bluff)	 8 Surveyed coastline	 11f Sand and gravel
 2a Flat coast	 9 High water line	 11g Coral, uncovers at sounding datum (See D-10.-10a)
 3 Clifty coast	 10 Low water line	 12 Breakers along a shore
 3a Rocky coast	11 Foreshore (Strand in general)	
 4 Sandhills; Dunes	 11a Mud	 14 Limit of unsurveyed areas
 5 Stony or Shingly shore	 11b Sand	 15 Rubble
 6 Sandy shore	 11c Stones; Shingle; or Gravel	 16 Shoreline from older surveys or small-scale charts
	 11d Rock, uncovers at sounding datum (See A-11g)	

# C Natural Features

Coastline		Supplementary national symbols: a-e
Foreshore → I, J		
1		Coastline, surveyed
2		Coastline, unsurveyed
3		Steep coast, Steep coast with rock cliffs, Cliffs
4		Coastal hillocks, elevation not determined
5		Flat coast
6		Sandy shore
7		Stony shore, Shingly shore
8		Sandhills, Dunes
9		Apparent Shoreline
9.1		Vegetation or topographic Feature Area Limit in general

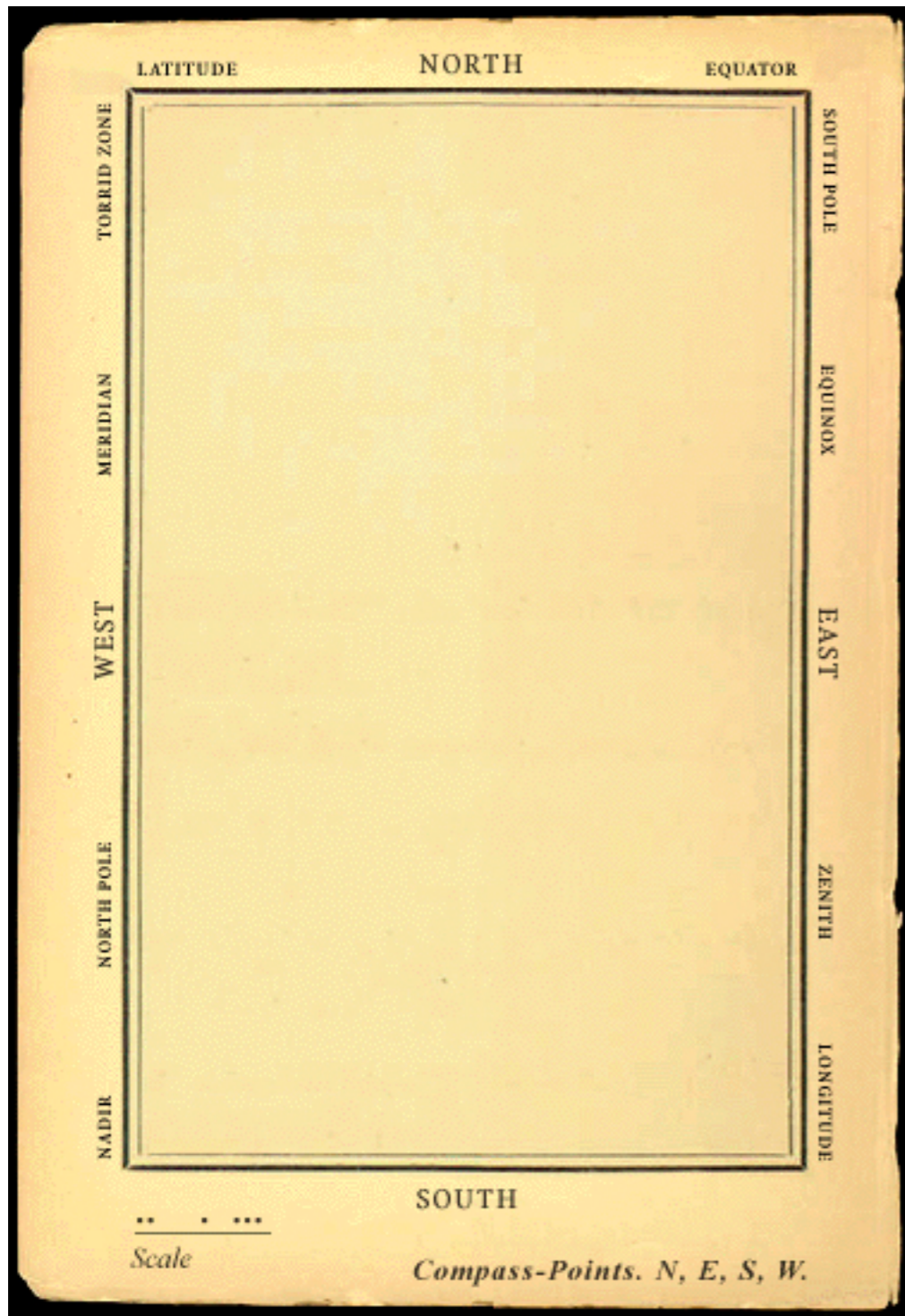


# MANHATTAN

The island's tip  
 was sliced by a ship  
 canal that failed the  
 Spuyten Duyvil shoals,  
 but severed Marble Hill  
 from Inwood. Medieval  
 locusts unicorn grass  
 the Cloisters; a flag-  
 pole and stake mark  
 old Fort Tryon. Lusty  
 crabs overlook the  
 broad Hudson River  
 as bedrock & history  
 anchor the Highline to  
 the George Washington Bridge. Walk east  
 toward De Wits across High Bridge;  
 gaze to the south  
 from Sugar Hill,  
 where trapezoids  
 and top dancers  
 stepped up into  
 the sun. Ages ago  
 rapeseed (so older  
 Atlantic Ocean)  
 closed; the line  
 with Africa heated  
 a melting pot. Lava  
 was injected in veins  
 of rock and crystallized  
 to form Palisade (1075).  
 The legacy of Algonquian  
 life is hidden in our place  
 names and our needs. The new-  
 comers (Dutch, then  
 English, African, Irish, German,  
 Italian, Jewish, Chinese, Greek,  
 Ukrainian, Armenian, Puerto Rican,  
 Panamanian, Cuban, Dominican, Haitian,  
 Filipino, and so) have shed blood in a  
 thousand places, but millions live. Legends  
 of Gotham: Father Knickerbocker, Rosa Luxemburg,  
 Emma Lazarus, Florentia, the rear of the EL,  
 the thousand of '41. Clams at the Polo Grounds,  
 Oldbury, barges ply swirling brown water near  
 North River sewage pipes, as striped bass and  
 shad swim up "the river that flows both ways": a  
 tidal reach of the sea all the way up to Albany.  
 Brownstones, bodega, hair salon & bus stop: no warm  
 signs in Harlem, noisy streets and quiet rooftops.  
 Kids splash around a hydrant as lovers embrace on a  
 Riverside Park bench and rush-hour traffic is stalled on the Triborough Bridge.  
 Some explore options: puffed chair on Sunday, empty  
 Grand's Beach, skipper the Apollo, ribs at Sylvia's,  
 law at Columbia, mango in El Barrio, peace garden  
 in the Cathedral, rowboat on the Meer, pub-crawl the  
 West Side, listen to poetry at the Red St. Y, such as  
 Zabar's, stroll up the Guggenheim, tour Grace Museum,  
 songbirds alight in leafy woods as a turtle lays eggs  
 near a pond in Central Park. Grand museums flank the  
 green with dinosaur bones and Egyptian tombs. When it  
 snows, we ramble out to Sheep Meadow & the Great Lawn;  
 in sunshine, to Strawberry Fields, the Lake, & the Zoo.  
 Buy hot dogs from pushcarts near Madison boutiques, or  
 hear grand opera at the Met. Step down to the world of  
 subways. (Take the A train, ride the Lexington line,  
 or change at 59th Street for the IRT. Catch the F out to Queens.)  
 Gneiss but full of schist, the bedrock sparkles with  
 mica. It bears the weight of midtown: skyscrapers  
 at Columbus Circle, Fifth Avenue, and Park Avenue.  
 Concerts at Carnegie, ice skating shows at  
 Rockefeller Center, Mass at St. Patrick's Cathedral.  
 Drawn up to a blue slice of sky as  
 us, 100 gridlocked taxis honk  
 and speaks at the U.N.

# Referential

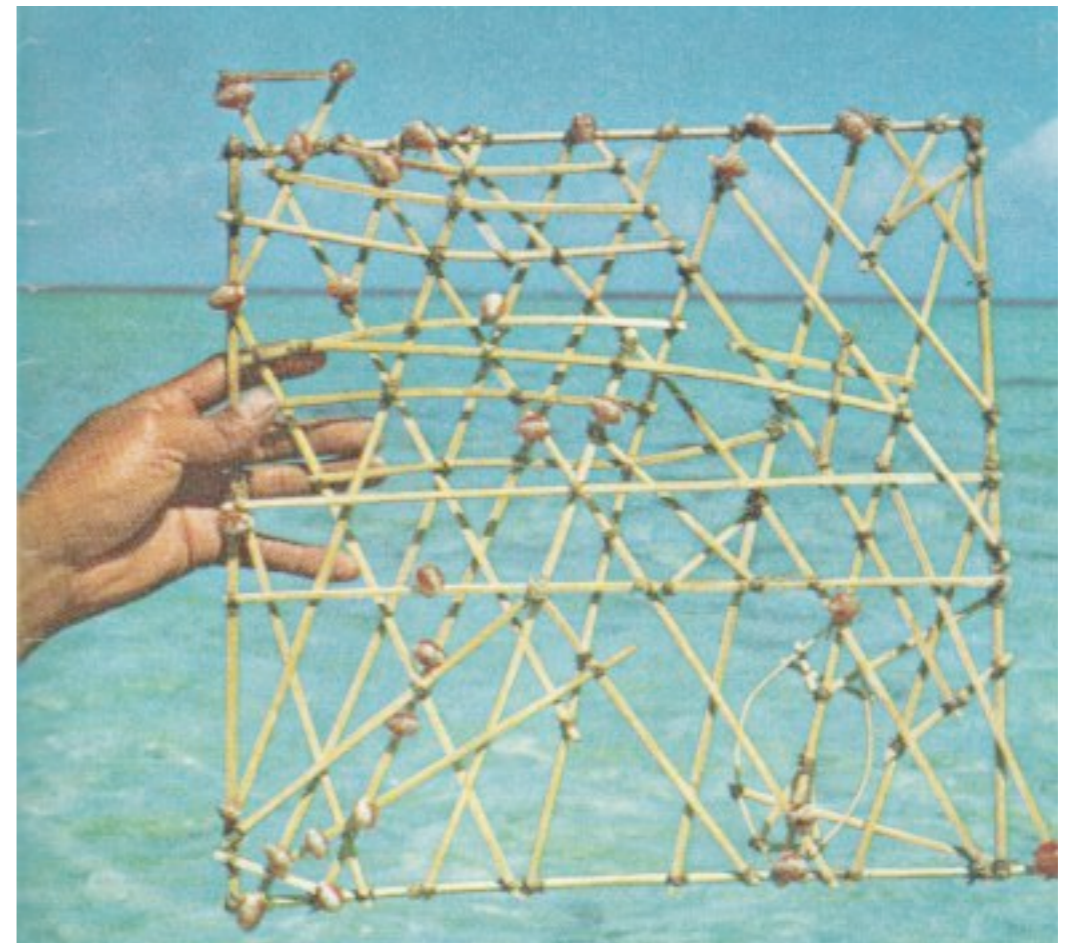
...listen to poetry at the Red St. Y,  
 ...s, spiral up the Guggenheim, tour Grace Museum,  
 songbirds alight in leafy woods as a turtle lays eggs  
 near a pond in Central Park. Grand museums flank the  
 green with dinosaur bones and Egyptian tombs. When it  
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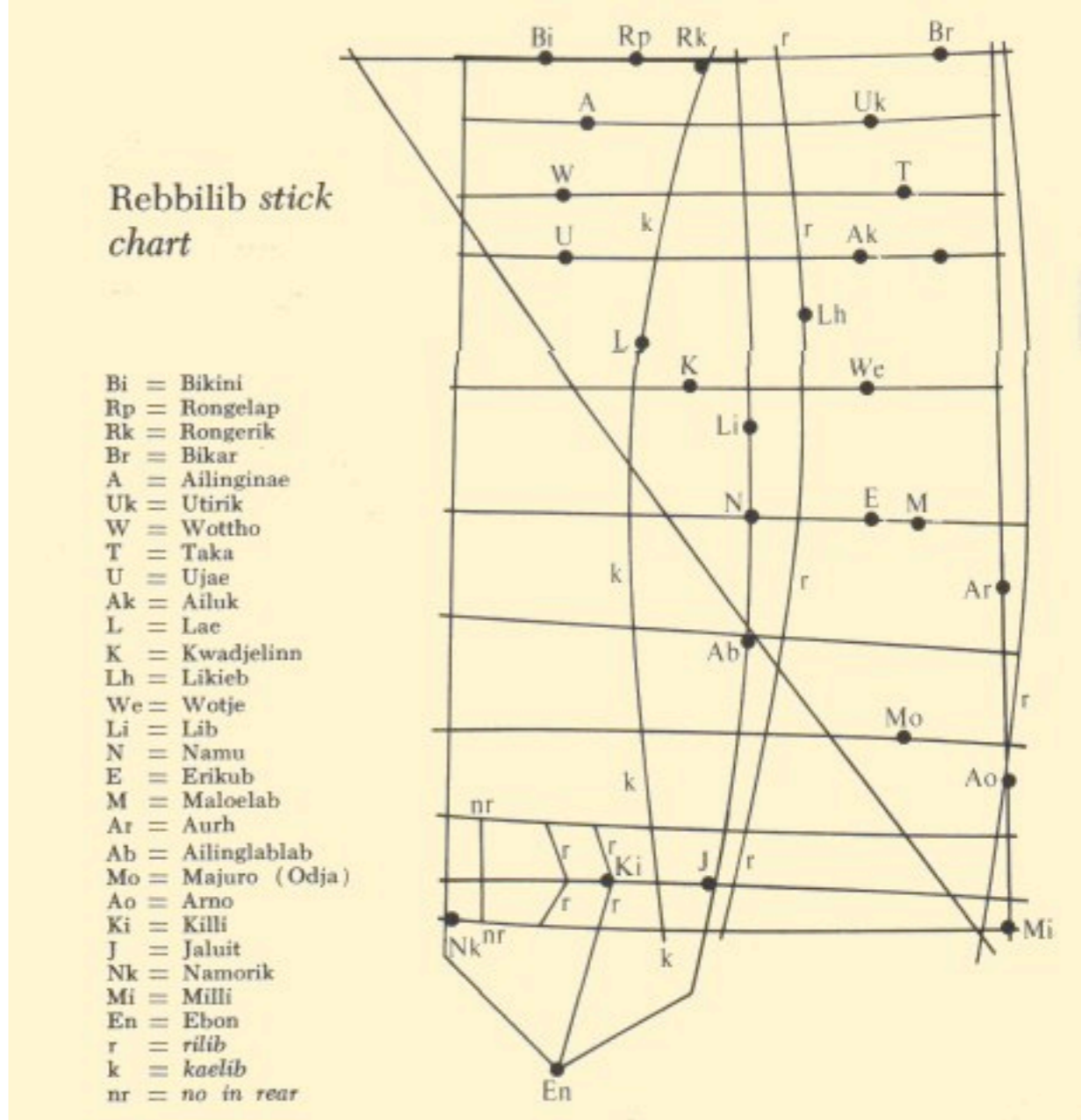


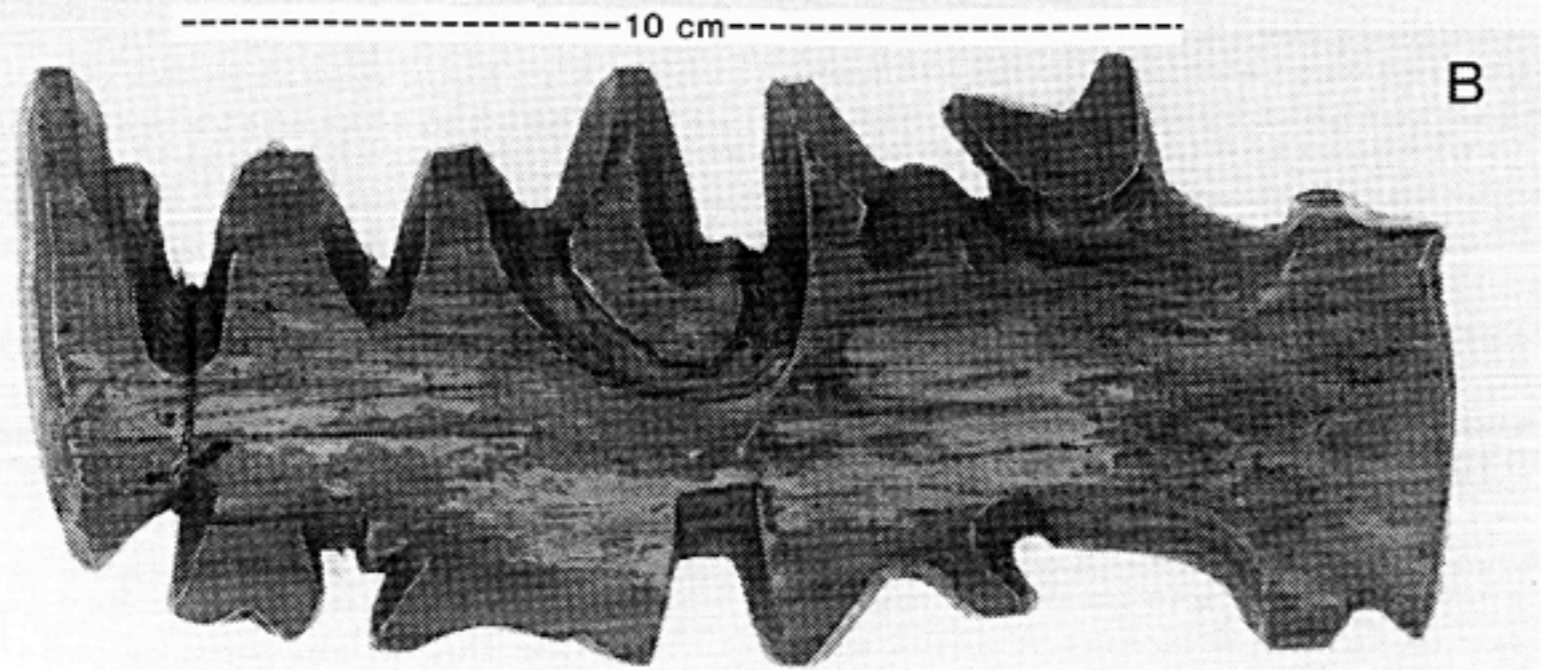
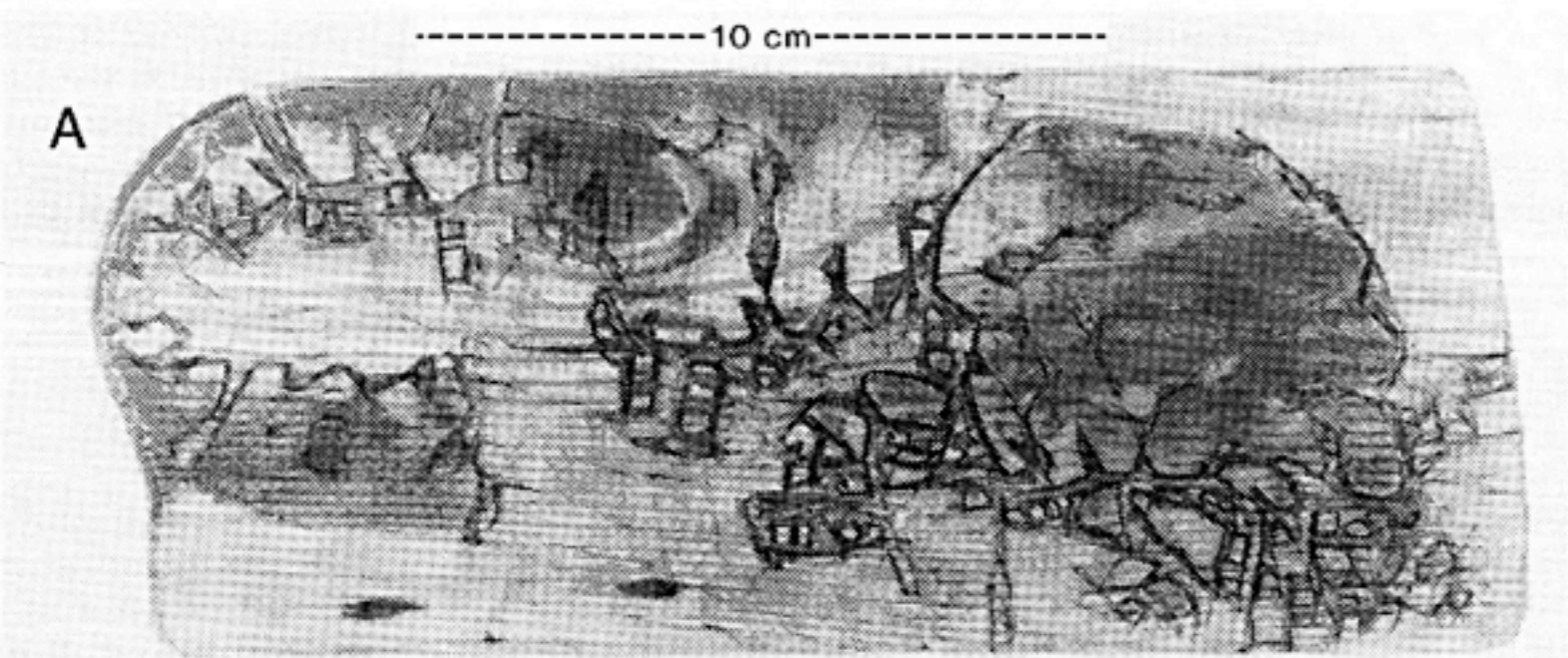
"Other maps are such shapes, with their islands and capes!  
But we've got our brave Captain to thank"  
(So the crew would protest) "that he's brought us the best--  
A perfect and absolute blank!"



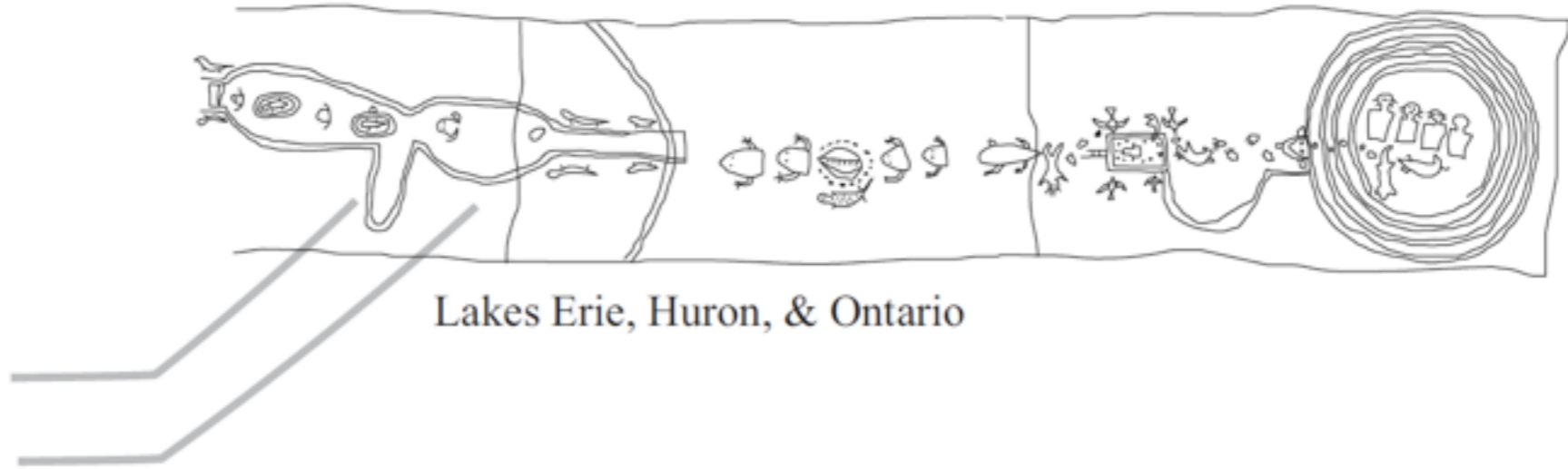
# Indexical/Non-Indexical







Lake Michigan

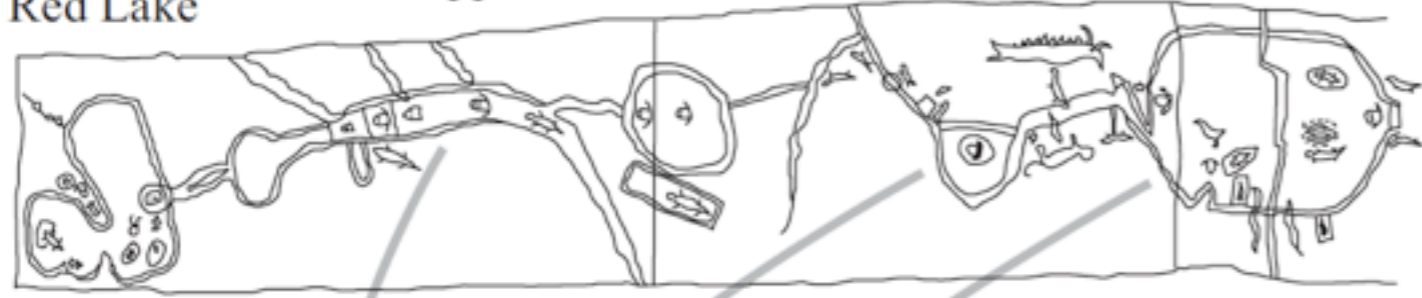


Lakes Erie, Huron, & Ontario

Red Lake

Mississippi River

St. Louis River



Lake Superior



RED SKY'S BIRCHBARK MIGRATION CHART. CRUDELY TOPOGRAPHICAL TO THE LEFT, BECOMING TOPOLOGICAL TOWARDS THE CENTRE AND ALMOST COSMOGRAPHICAL TOWARDS THE RIGHT (after Dewdney)

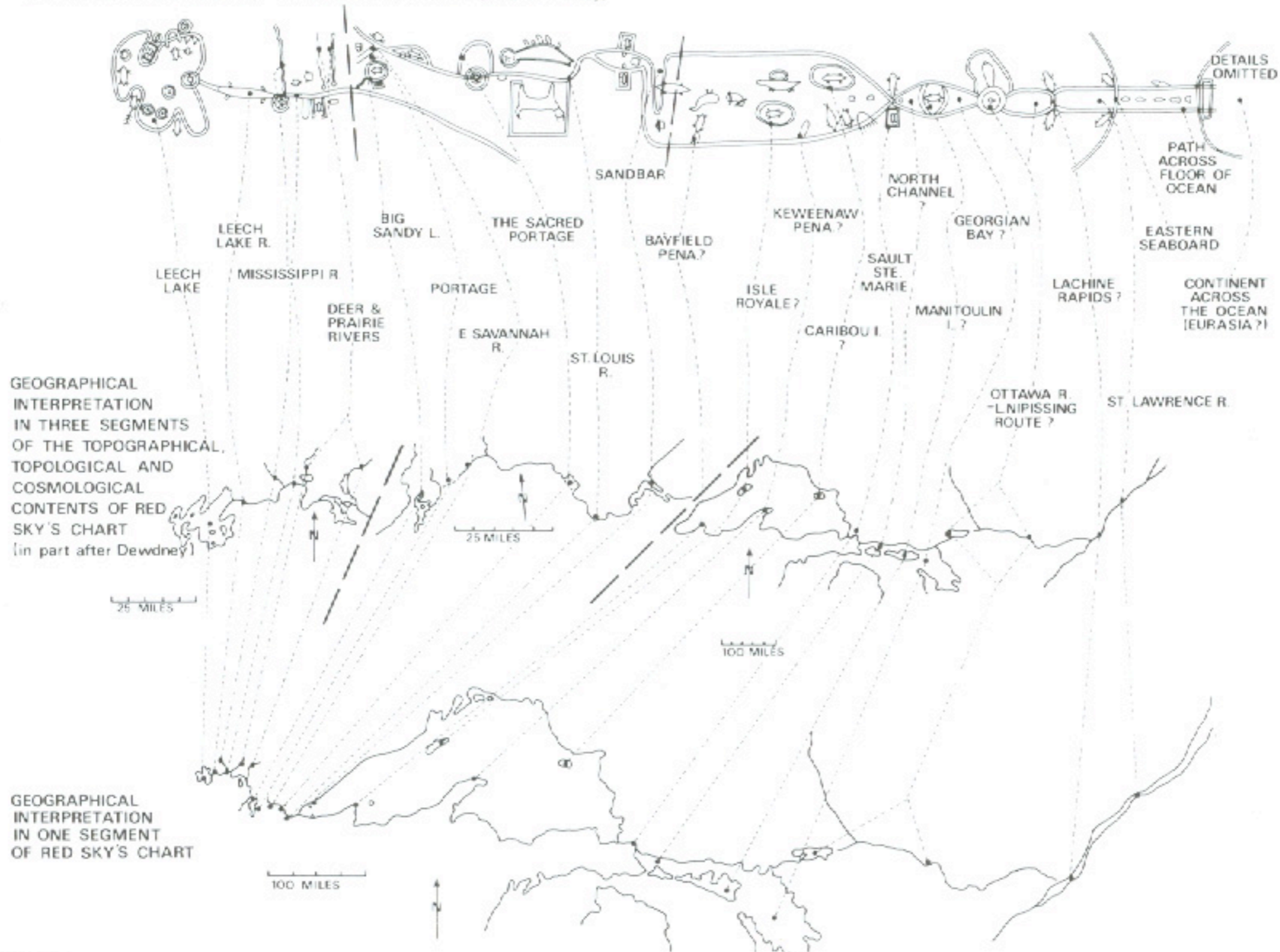
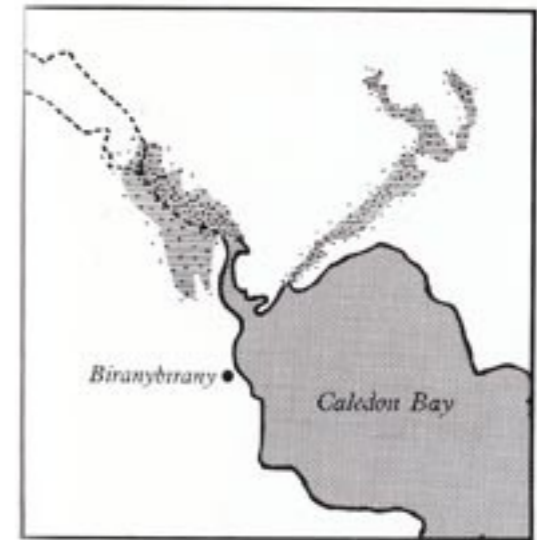
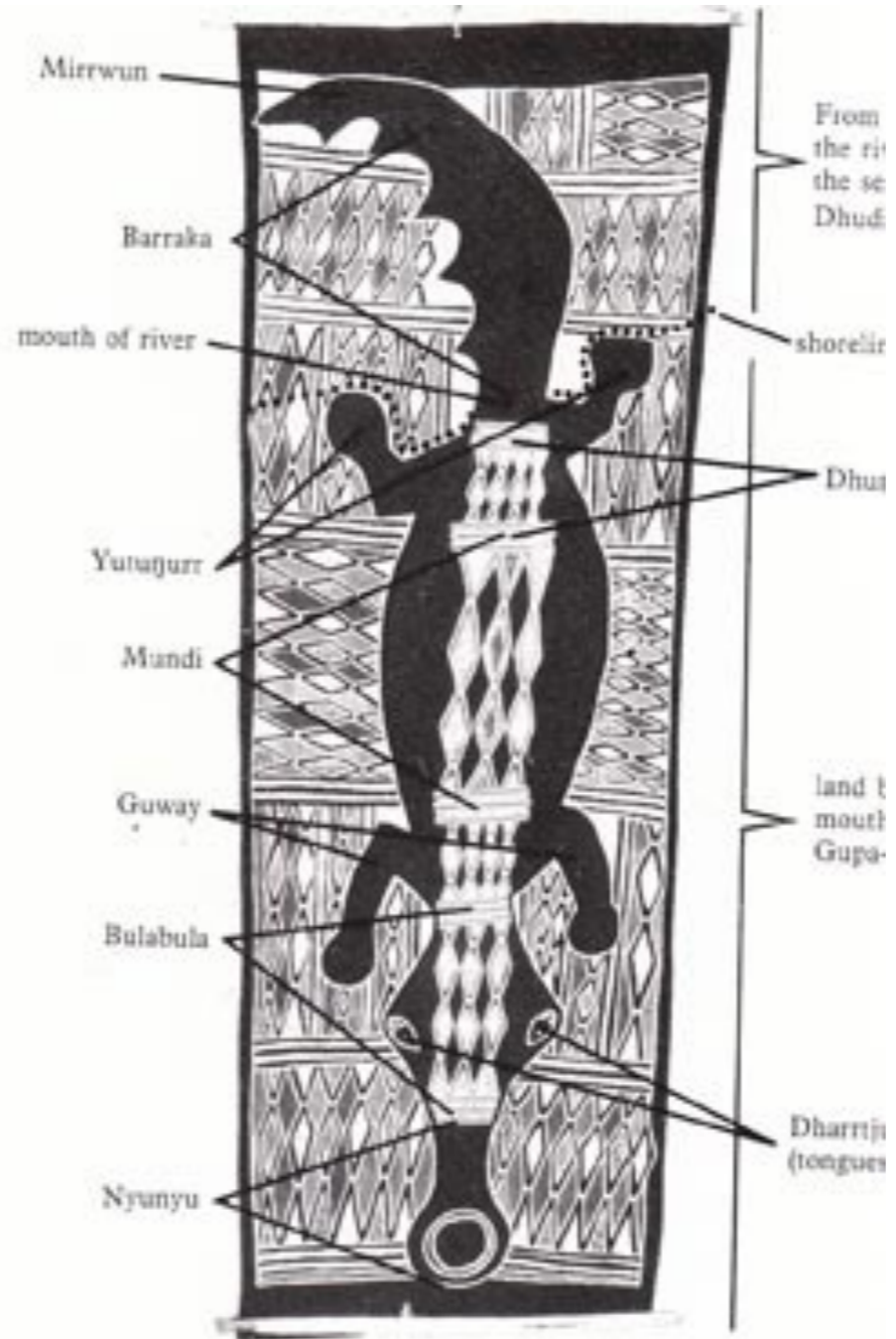


Fig. 3b





“...the whole of Australia could be read as a musical score. There was hardly a rock or creek in the country that could not or had not been sung. One should perhaps visualize the Songlines as a spaghetti of Iliads and Odysseys, writhing this way and that, in which every 'episode' was readable in terms of geology.”

-Bruce Chatwin, *Songlines*

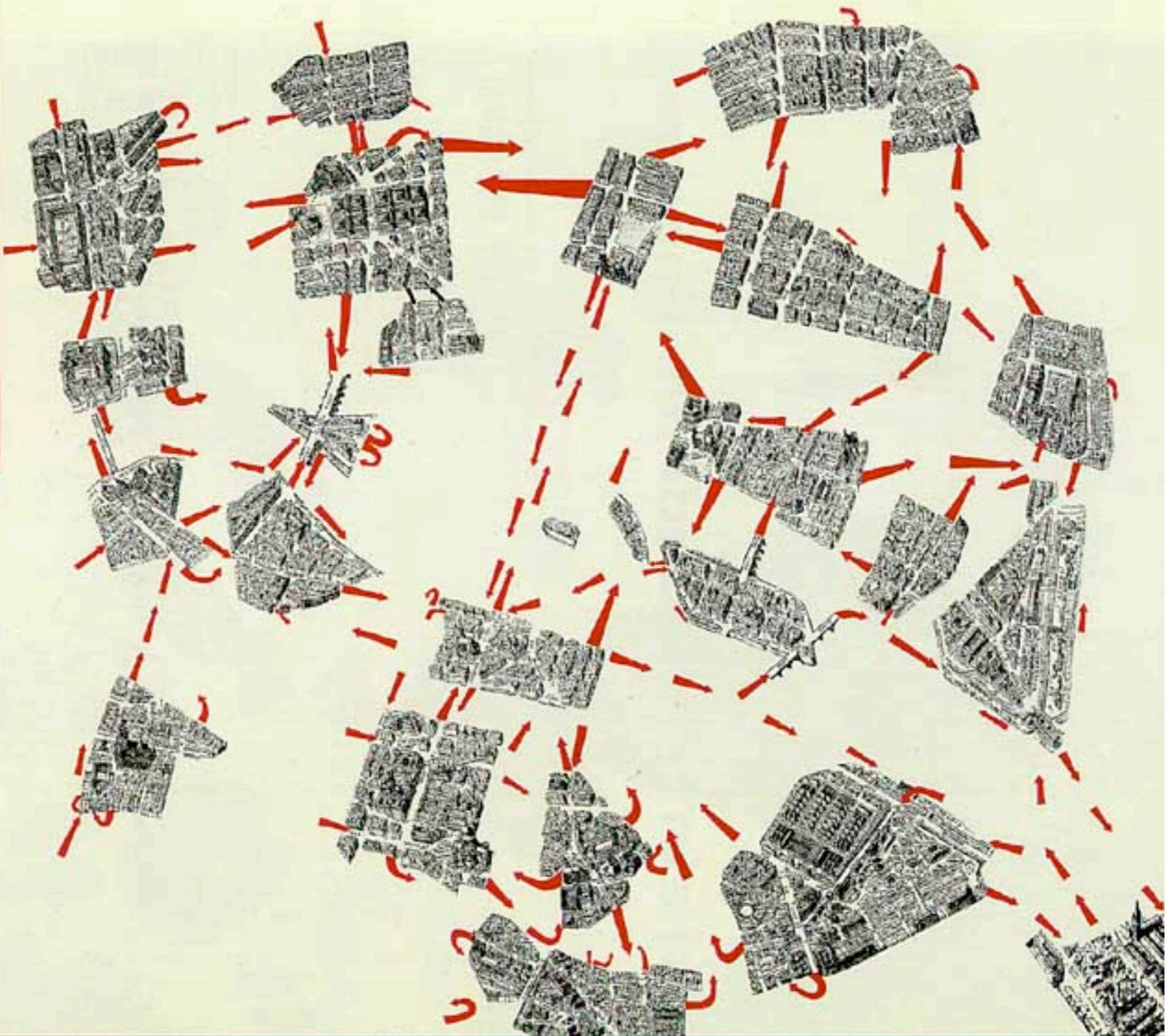
GUIDE  
PSYCHOGEOGRAPHIQUE  
DE PARIS

EDITÉ PAR LE GABRIEL ENCREN EN  
PARTIE DE DEBORD ET  
PIERRE & GUYARDON

DISCOURS SUR LES PASSIONS DE L'AMOUR

pentès psychogéographiques de la dérive et localisation  
d'unités d'ambiance

par G. E. DEBORD



“the study of the precise laws and specific effects of the geographical environment, consciously organized or not, on the emotions and behavior of individuals.”

-Guy DeBord on psychogeography



# THE NAKED CITY

ILLUSTRATION DE L'HYPOTHÈSE DES PLAQUES  
TOURNANTES EN PSYCHOGEOGRAPHIQUE

G. - E. DEBORD

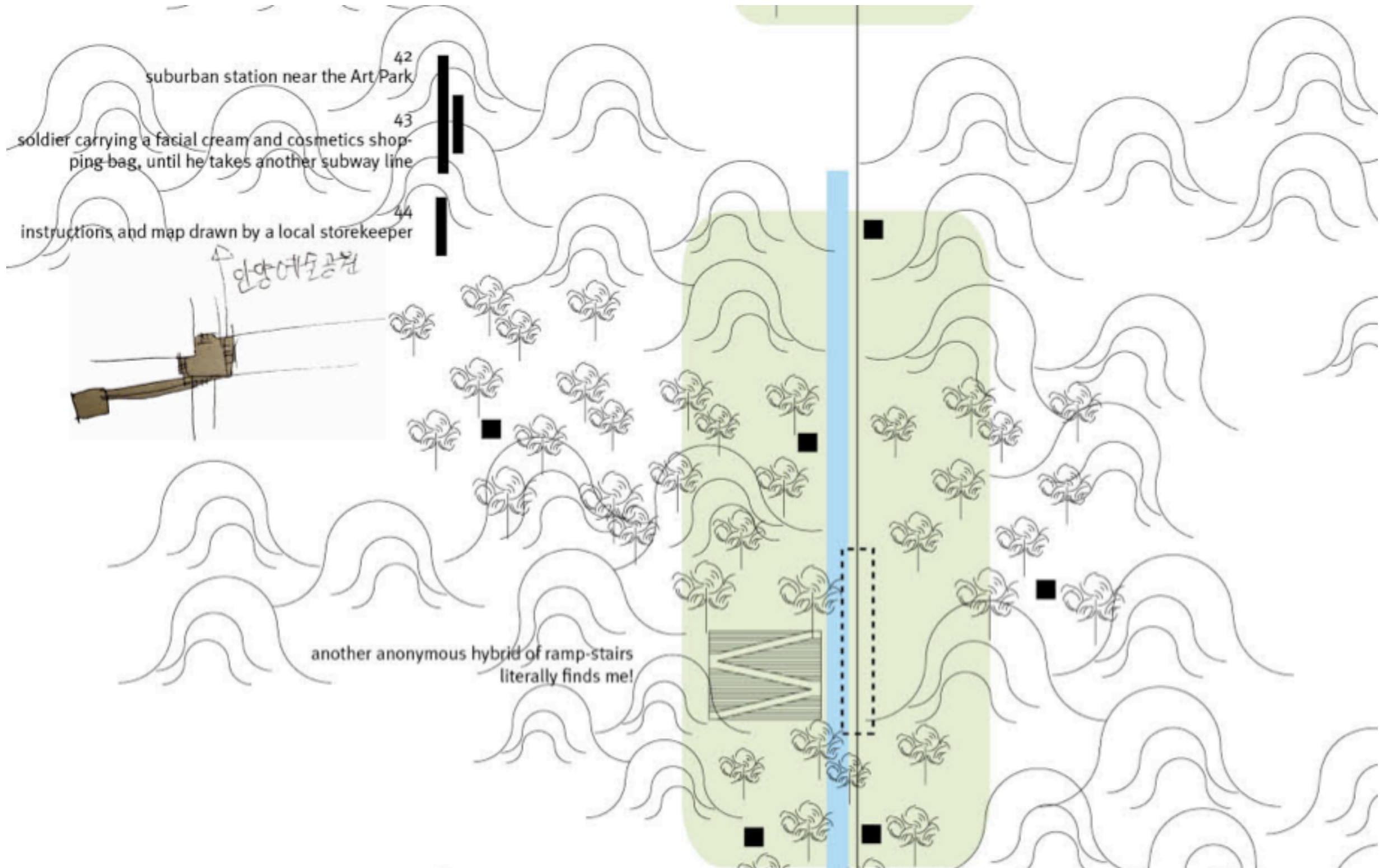
42 suburban station near the Art Park

43 soldier carrying a facial cream and cosmetics shopping bag, until he takes another subway line

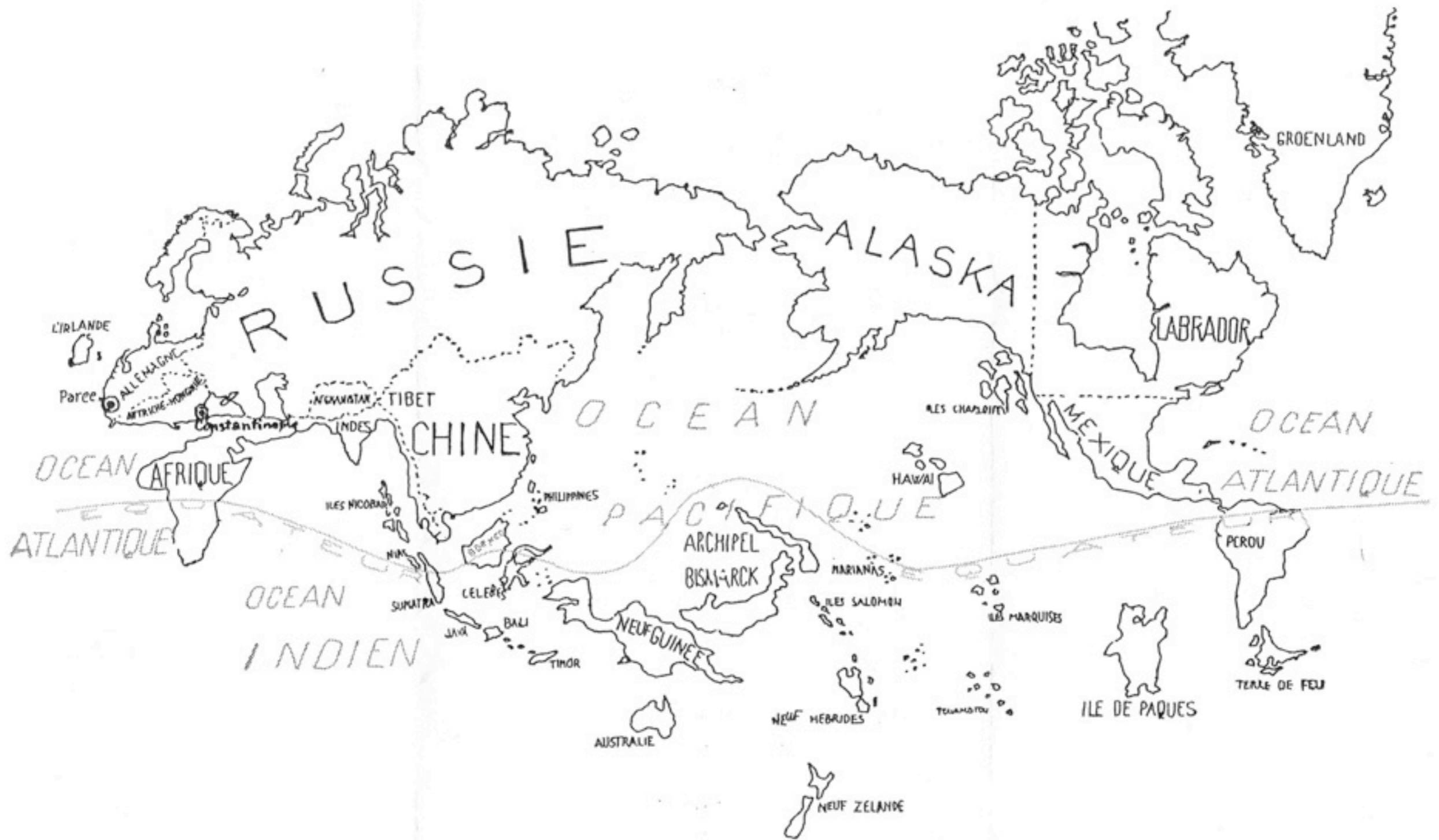
44 instructions and map drawn by a local storekeeper

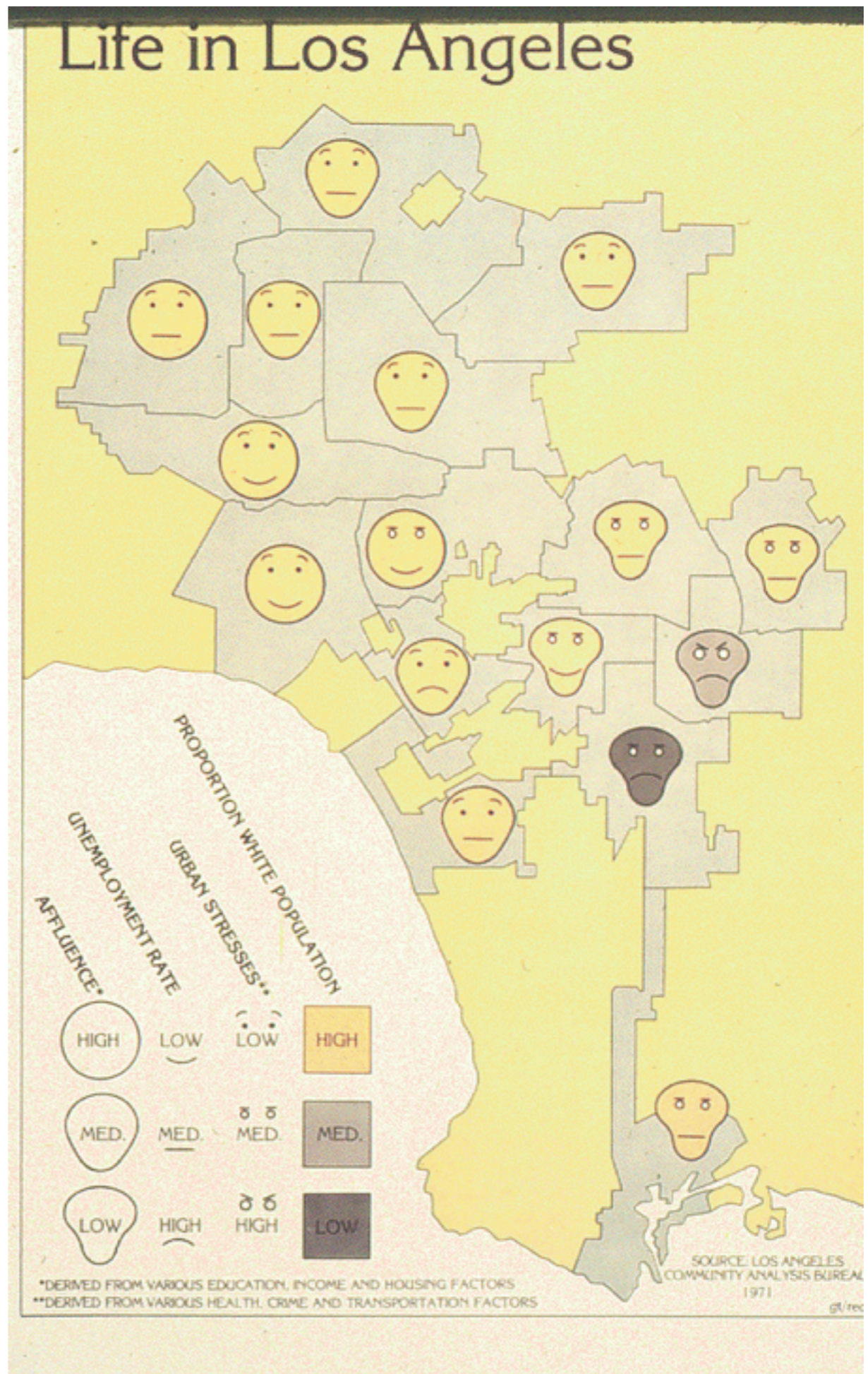
안양예술공원

another anonymous hybrid of ramp-stairs  
literally finds me!



# Propositional





# THE USA, AS ONE-BIG-NEIGHBORHOOD

There are about 300,000,000 of us in the USA, spread out over 3,794,101 sq miles



But let's say we all wanted to live in 1 state together, comfortably.



Brooklyn, NY  
2,500,000 people  
in 70.81 sq mi

Using the density of Brooklyn, NY as an example: at about 35,000 people to a square mile...

Pennsylvania?

(44,817 sq miles)

Texas?

(697,700 sq miles)

What state would we all fit into?

Florida?

(53,627 sq miles)

California?

(163,696 sq miles)

The answer:



New Hampshire!  
8,968 sq miles (about 1% of 1% of the USA)

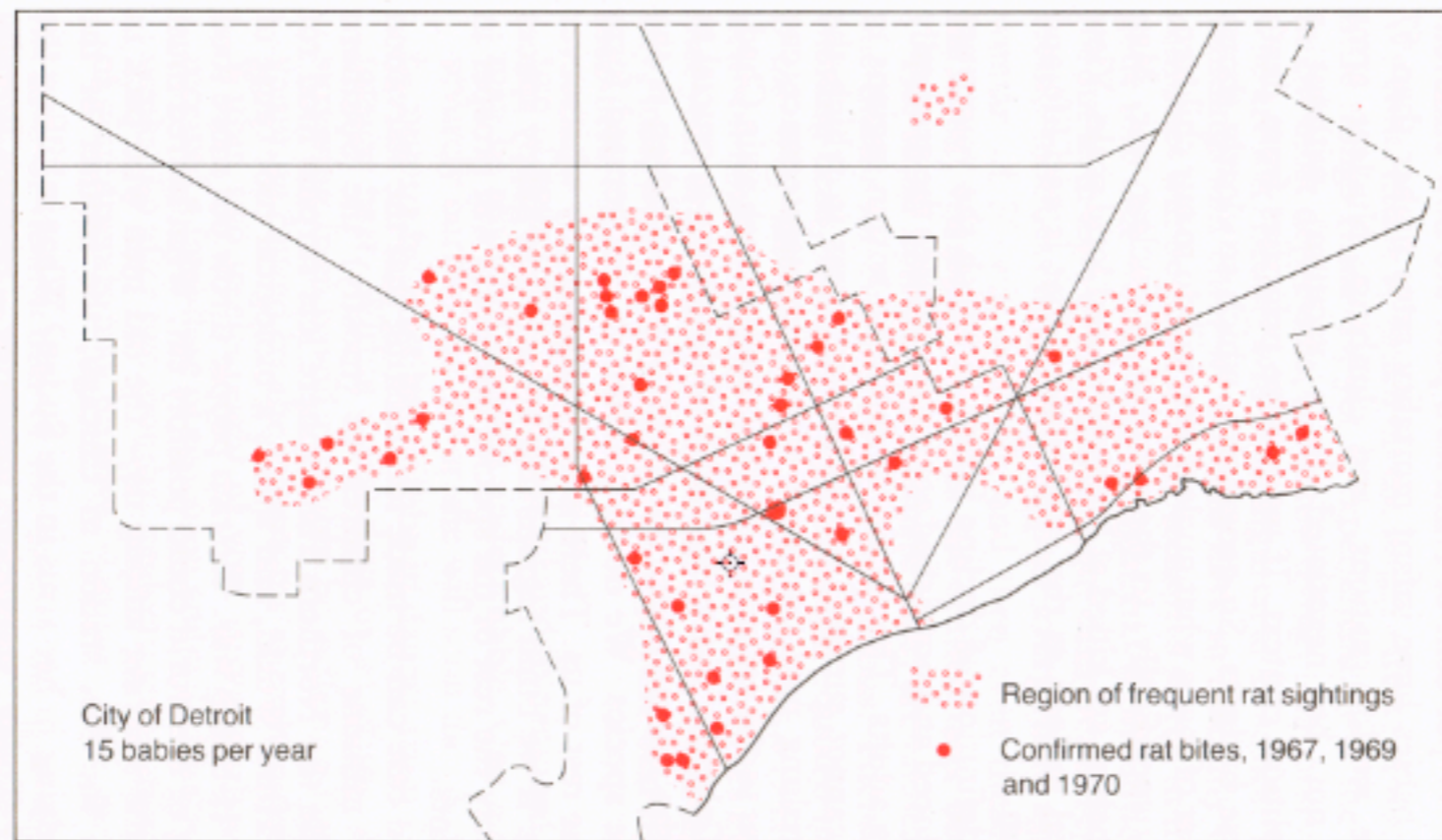
In other words if we wanted to we could all move into and live in an area the size of New Hampshire: the 5th smallest US state (8,968 sq miles) with extra room for more parks. (because Brooklyn could use more)

And if the area were square, it would be about 100 miles wide. You could ride a bike to the other side of the "country" in a day. Our "green belt" would be the rest of the USA. Not only would we all have access to mass transit and live in spaces with small footprints, the need for Air travel would be greatly reduced. You'd only fly when leaving the country. WE'D ALL BE NEIGHBORS.





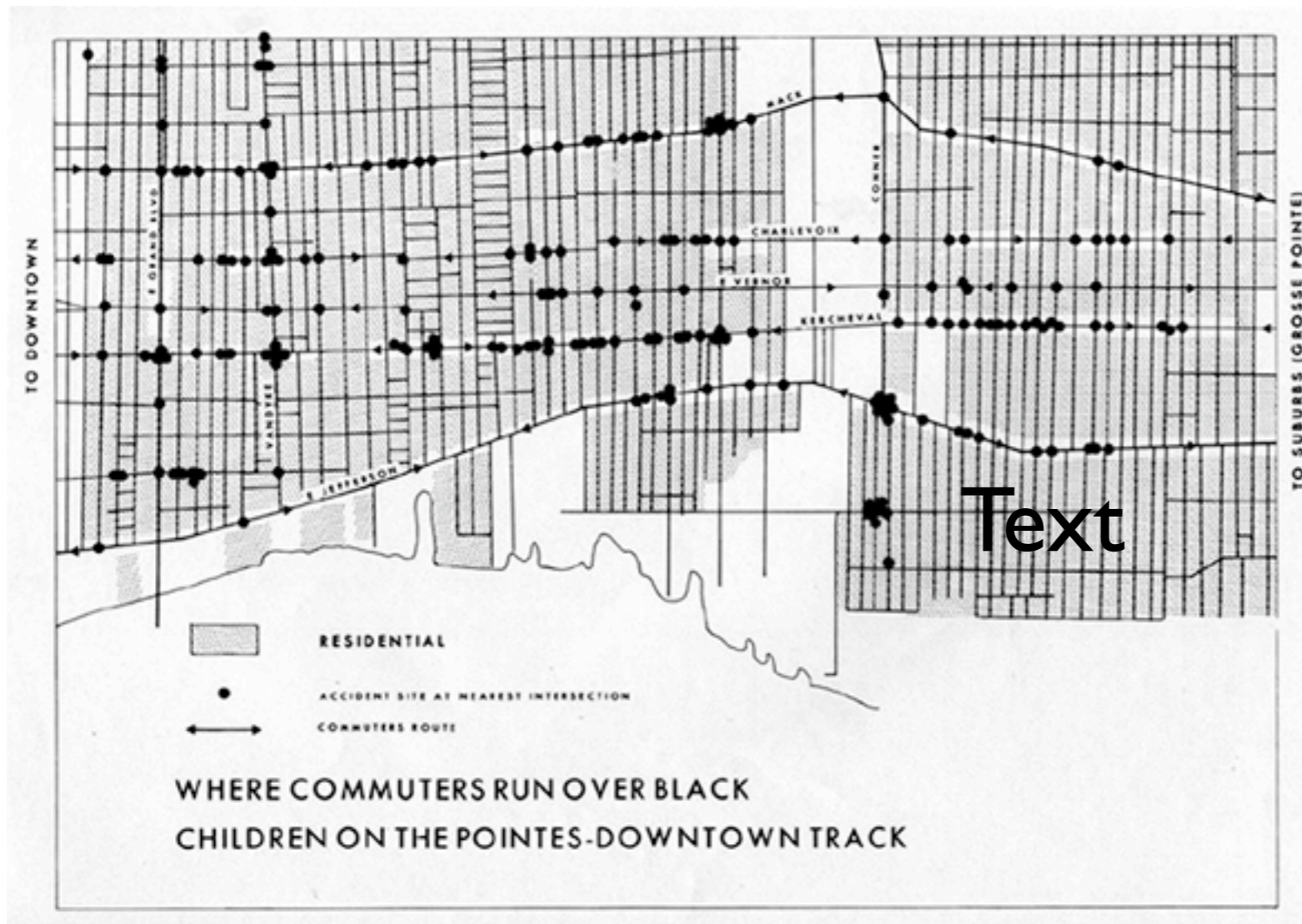
Redrawn from William Bunge, *The Continents and Islands of Mankind*. Areas in black have more than 30 people per square mile. Reproduced from *Making Maps*, p. 160-161



**Map 3.16 Region of rat-bitten babies**

If a middle-class suburbanite sees a rat in a slum ghetto he may feel disgust, but a slum mother feels horror. The rats – predacious carnivores – are looking for any food to eat, be it garbage or her infant’s toes, fingers and nose. In New York City there are an estimated 4 million rats, almost one to every person. But in slum ghettos like Harlem there are 20 rats per baby, hunting, hunting.

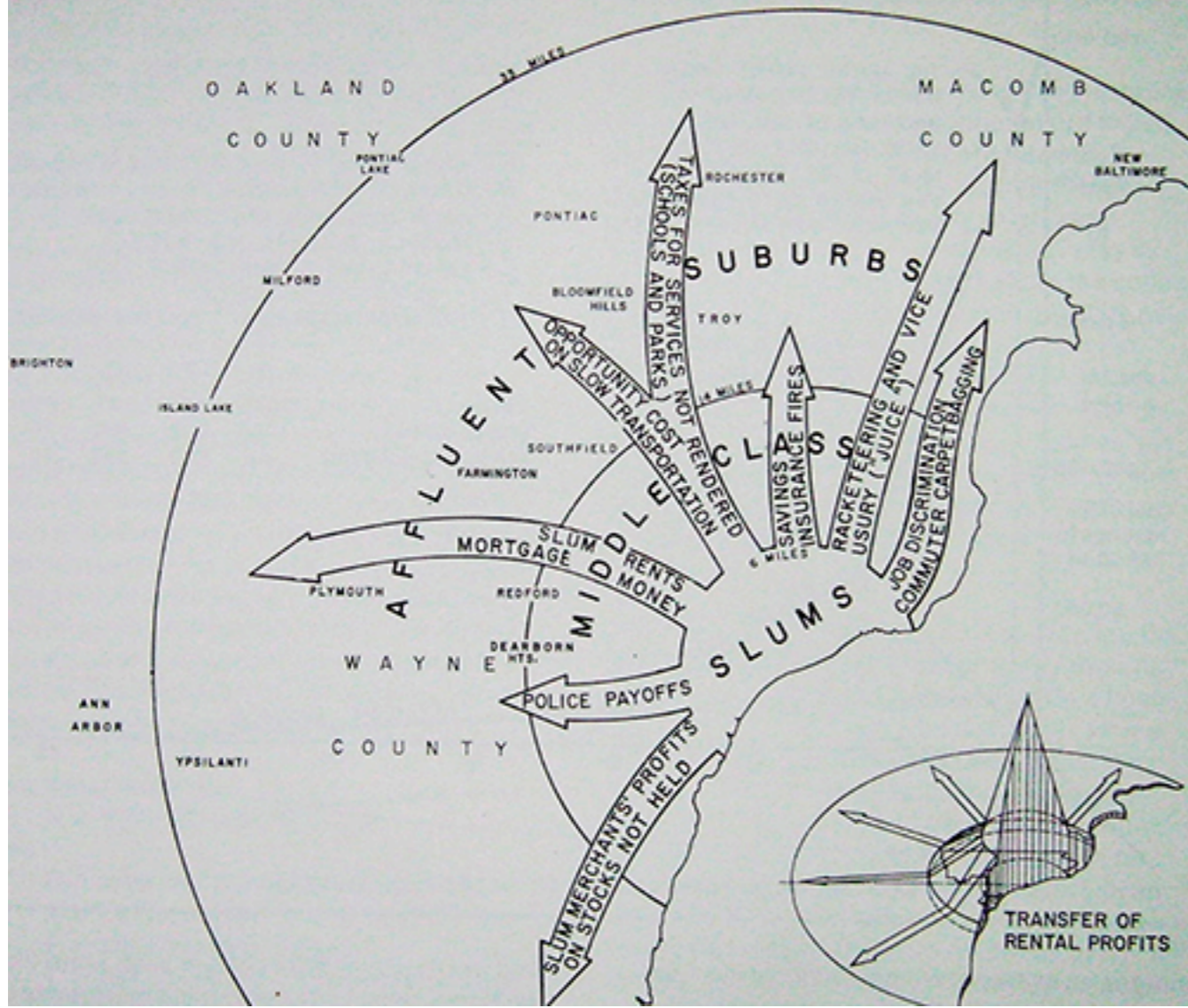
Source: Detroit Department of Health, 1967, 1969 and 1970.



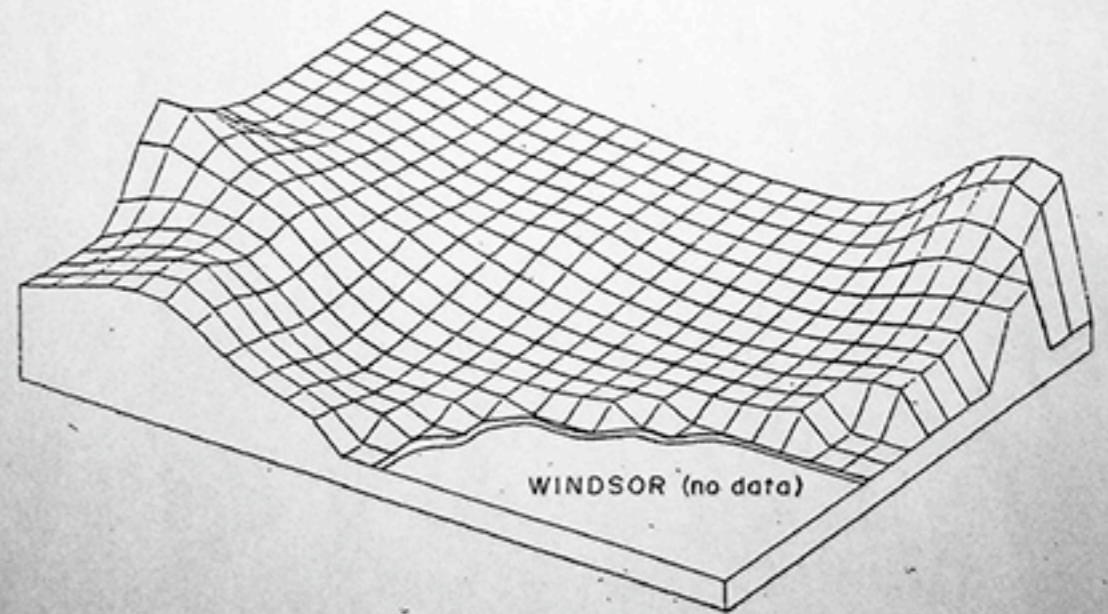
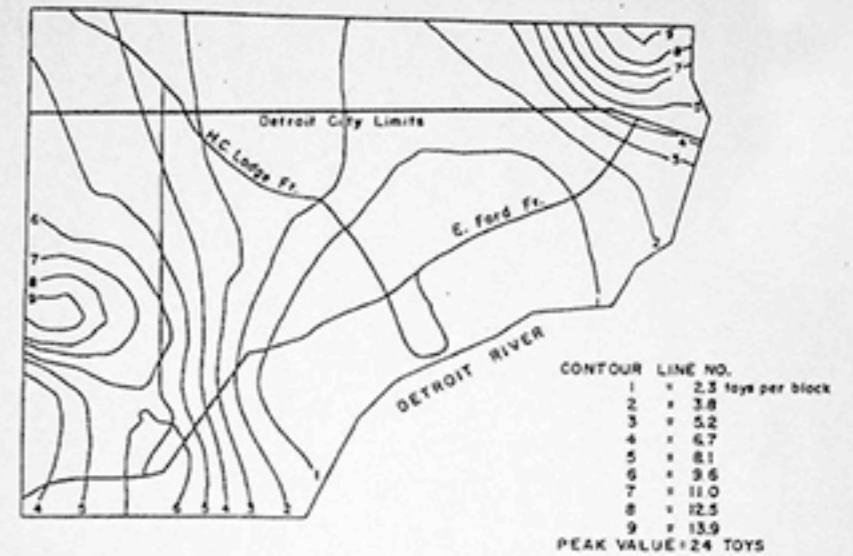
Muhammad Ali (1).  
 Herbert Aptheker (2).  
 Robert Avakian (8).  
 John C. Bennett (3).  
 James Bevel (4).  
 Paul Boutelle (5).  
 Elaine Brown (7).  
 H. Rap Brown (7).  
 William Bunge (8).  
 Stokely Carmichael (9).  
 John Ciardi (3).  
 Jesus Colon (2).  
 Don Cox (7).  
 Carl Davidson (8).  
 Angela Davis (2).  
 Rennard Davis (6, 8).  
 David Dellinger (6, 10).  
 Douglas Dowd (10).  
 Harry Edwards (7).  
 Richard R. Fernandez (10).  
 John Froines (6).  
 Charles Garry (2, 7).  
 Carlton Goodlett (10).  
 Dick Gregory (4).  
 Deirdre Griswold (11).  
 Fred Hampton (7).



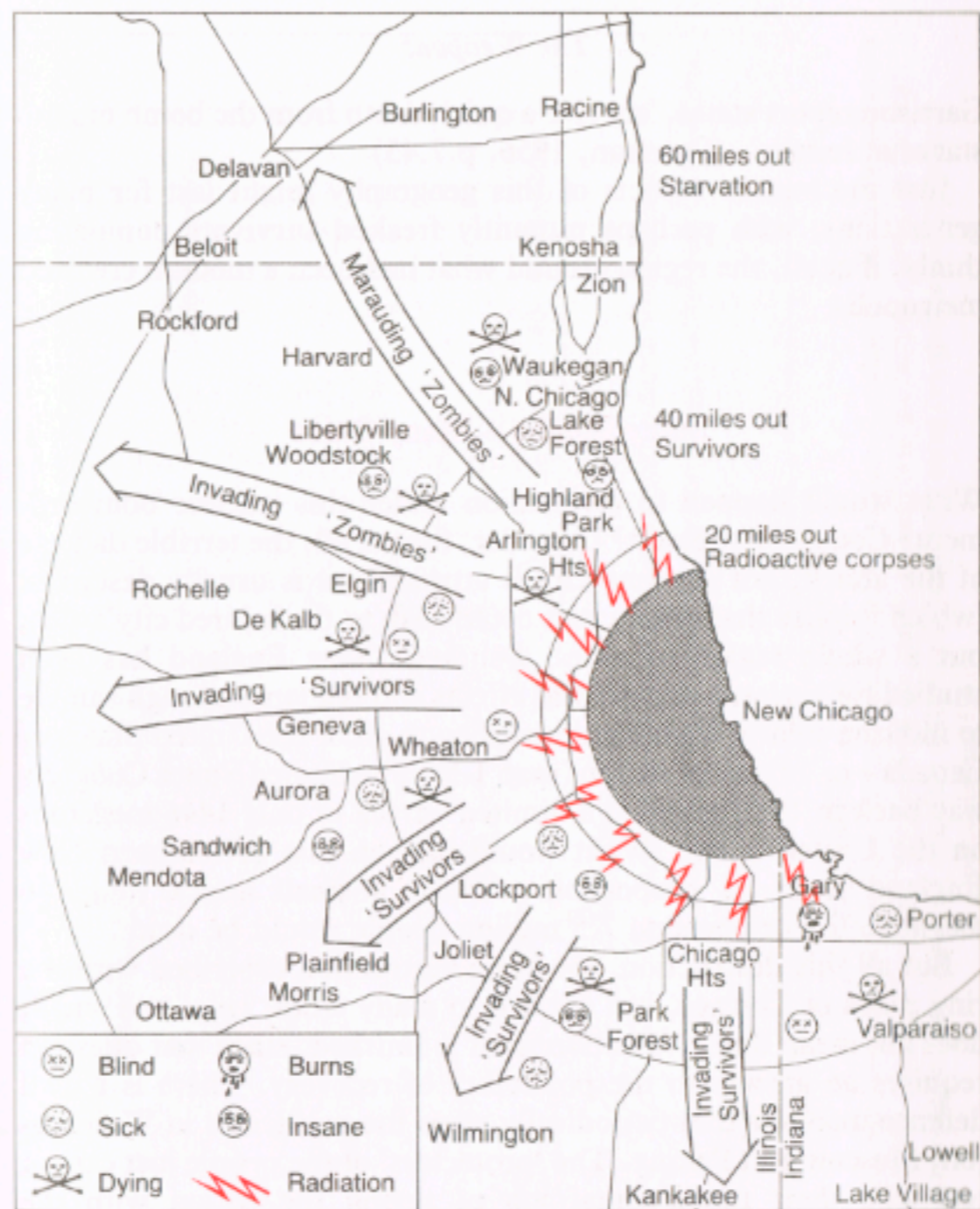
# DIRECTION OF MONEY TRANSFERS IN METROPOLITAN DETROIT



# PURCHASED TOYS



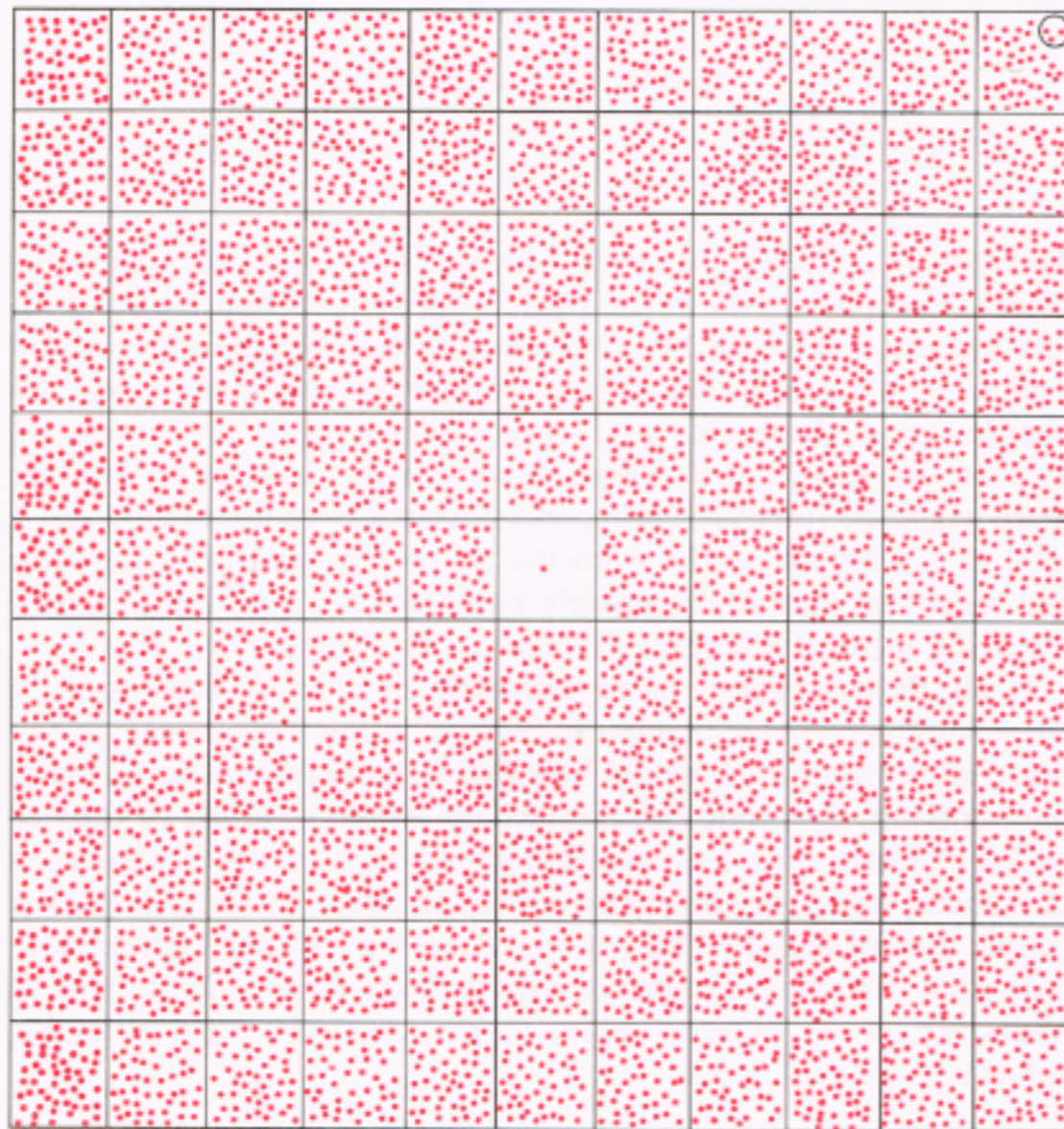
The number of conventional "store bought", non-improvised toys on each block, such as bikes, wagons, swimming pools, swing set, baseball gloves, etc. This map was made in November when the temperature was about 0 degrees C and in light snow. It underestimates the differential in the number of toys across Detroit. Peak value is 24 toys per block.



### Map 1.4 New Chicago

The third ring map is apparent the minute the firestorm has burned out. It is the geography of New Chicago, which gradually fades away only after thousands of years. The new Port of Chicago, the Bay of Chicago, is surrounded by a 'hot' ring. The corpses do not begin to be evident until the edges of the firestorm are passed.

The survivors, however, are the ultimate blight of all. The rings of the dead, blinded, crazed, dying-of-radiation-sickness finally give way to the largest ring, the ring of the starving. Even distant farmers, without pesticides, fertilizer, horses or gasoline for farm machinery, might starve.



**Fig.1.1 Nuclear firepower**

The dot in the centre represents all the firepower of World War II. The other dots represent the firepower of existing nuclear weapons. The top right circle represents the weapons on one Poseidon submarine. It is equal to the firepower of three world wars.

*Source: Toronto Star, 24 January 1982.*

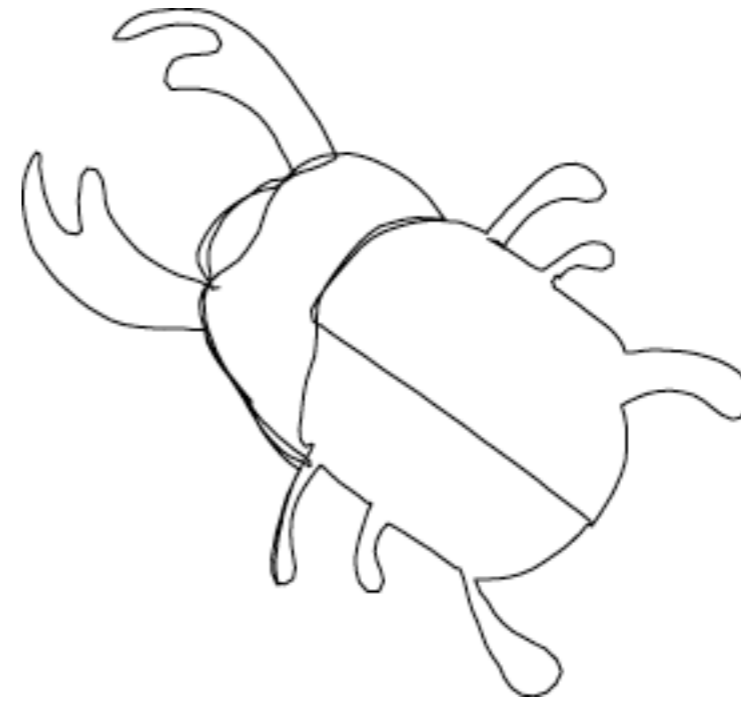
# Intimate/Personal Geographies



*My Ghost*, London GPS Map 2009, Archival Inkjet (330x310 mm), Jeremy Wood



*Traverse Me*  
warwickcampus  
map for pedestrians



GPS drawing workshops mostly involve drawing in an open space, in a park or playing field, or along footpaths and roads. Drawing with a GPS receiver challenges perceptions of scale and orientation by traveling as a geodetic pencil. The outcomes depend upon the available space and time as the more notable results usually appear after a bit of experimentation. Activities include the scaling up of prepared sketches by over 1000 times, freestyle drawings of more than faces, love hearts, and logos, along with group efforts for larger designs.

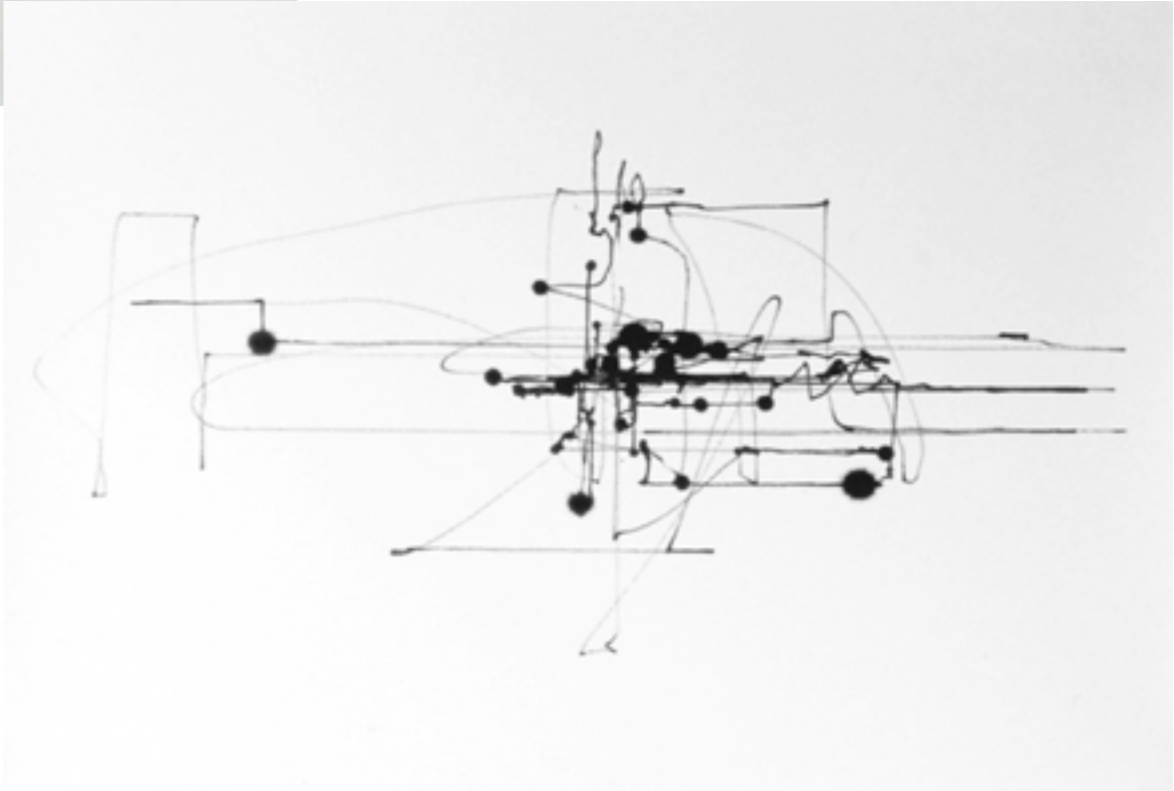
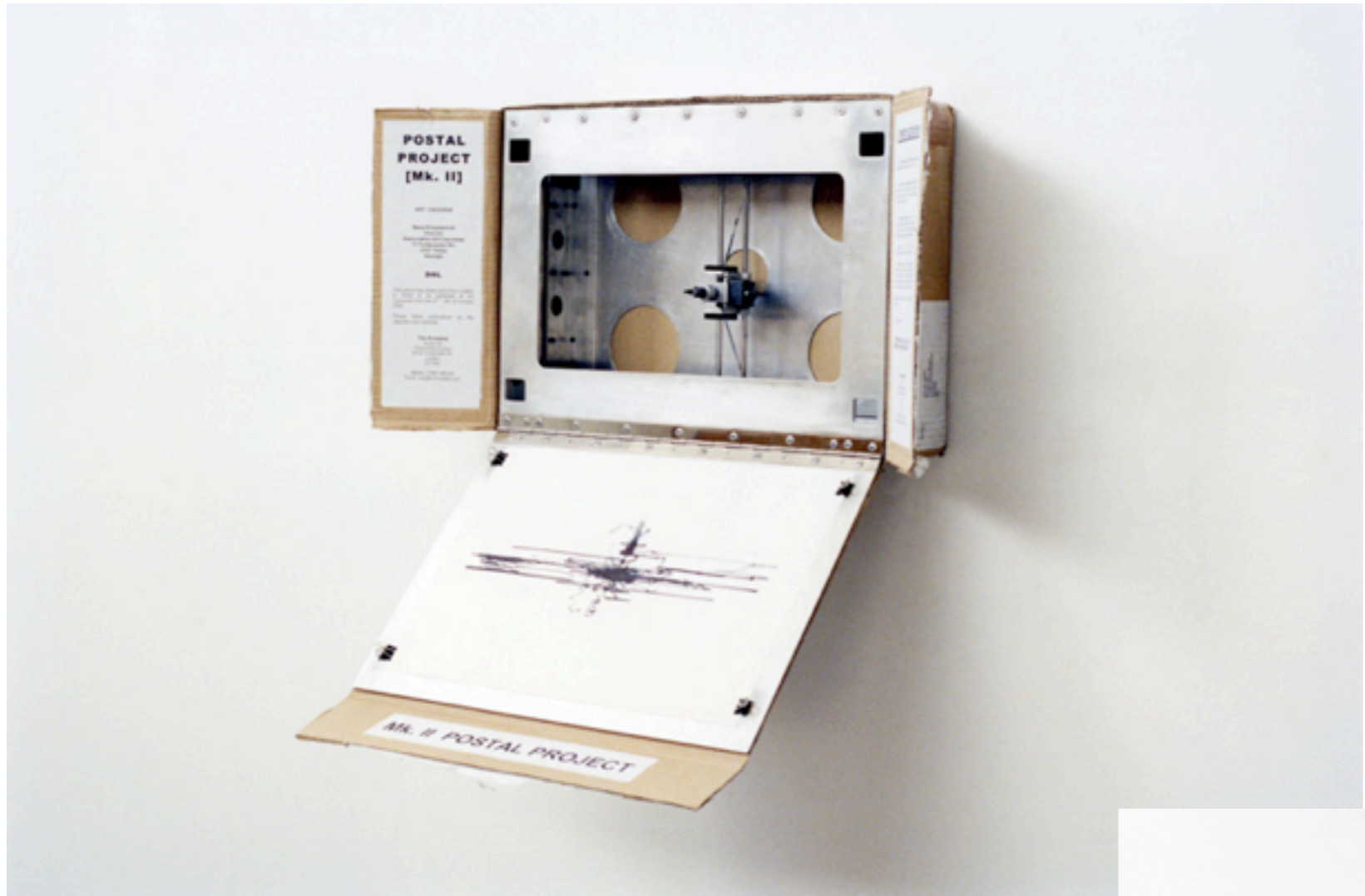
The University of Warwick campus map was drawn on foot at 1:1 scale with 238 miles of GPS tracks walked over 17 days. Jeremy Wood



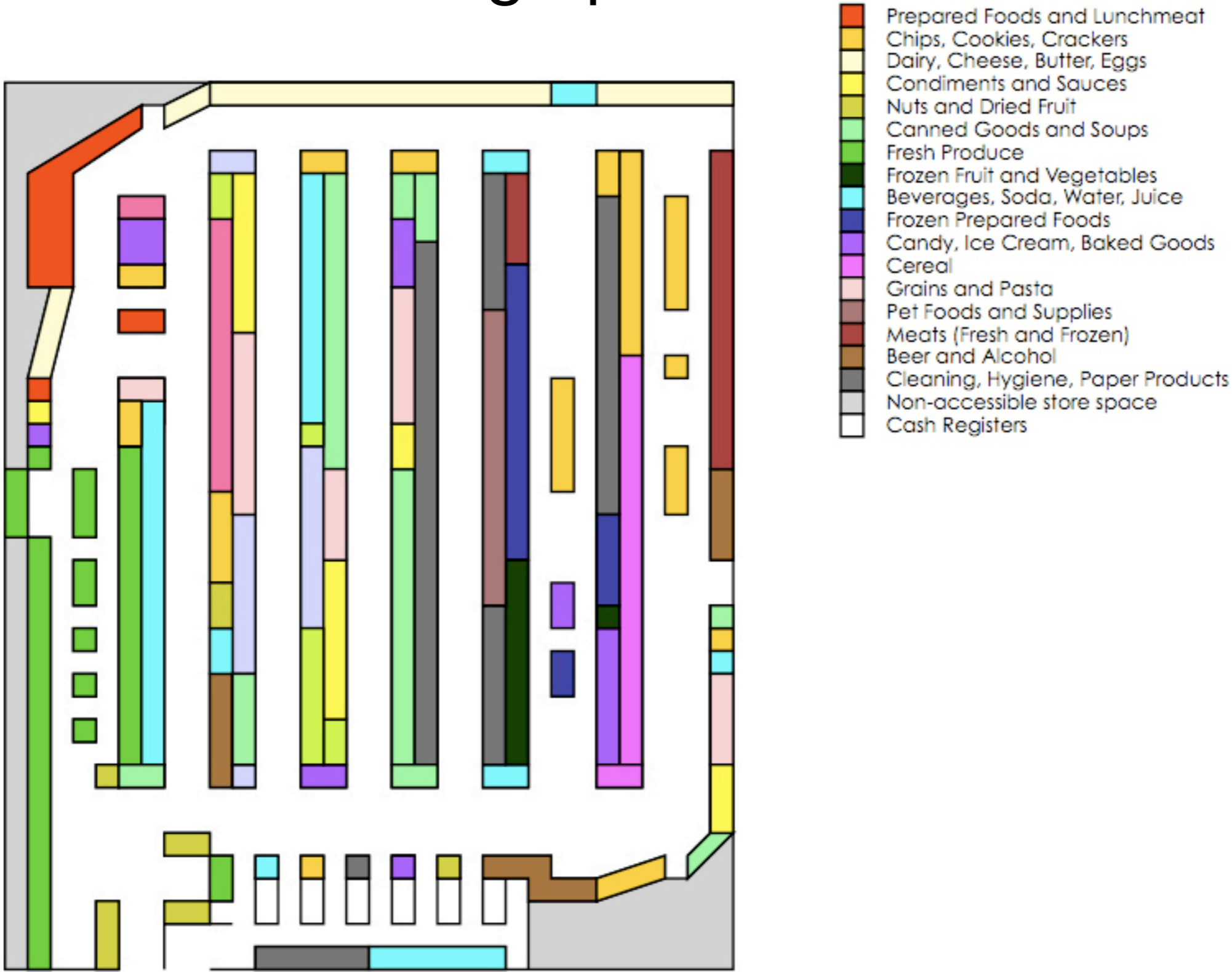
# Geographic Traces

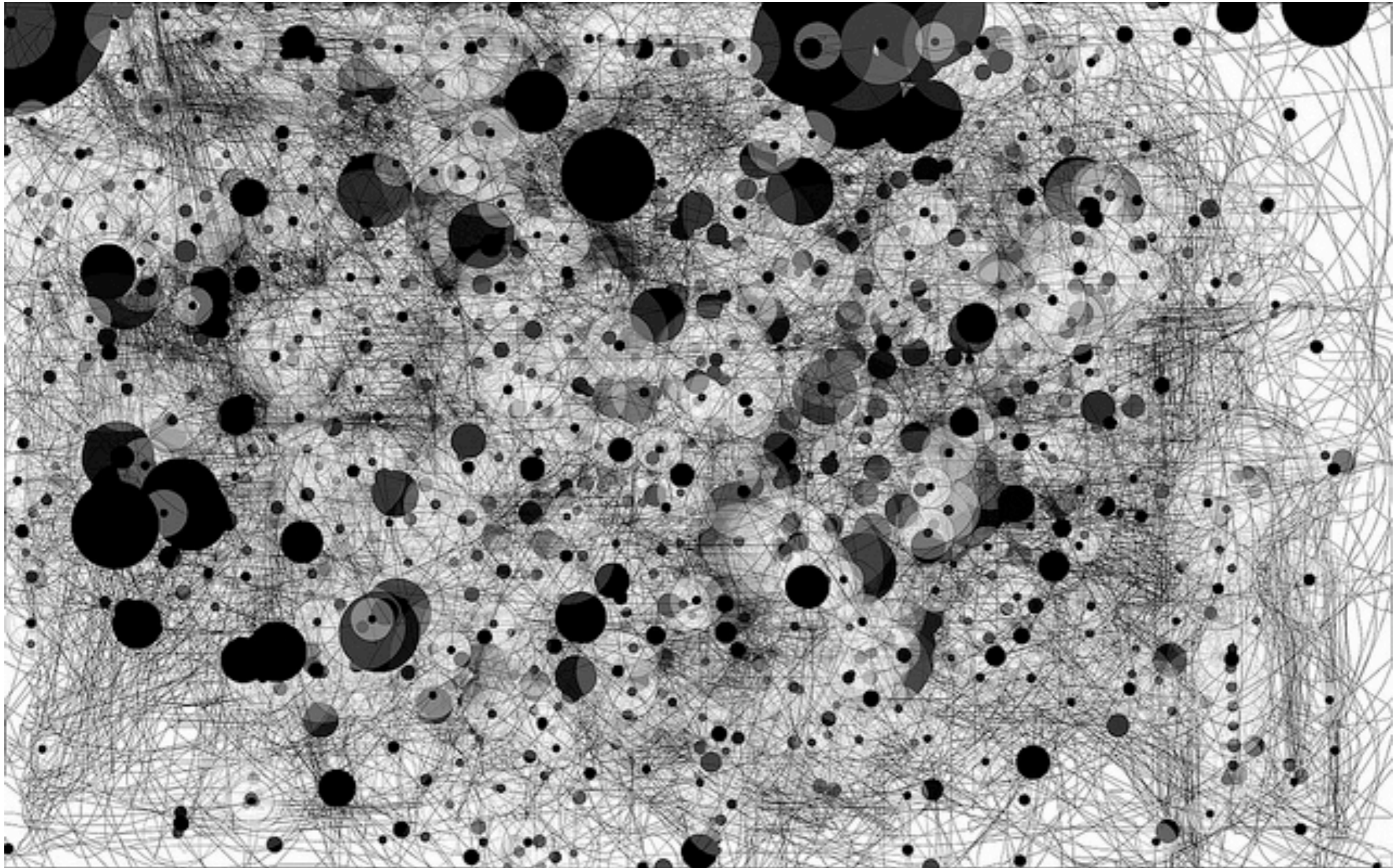


Tim Knowles MK3 Postal Project



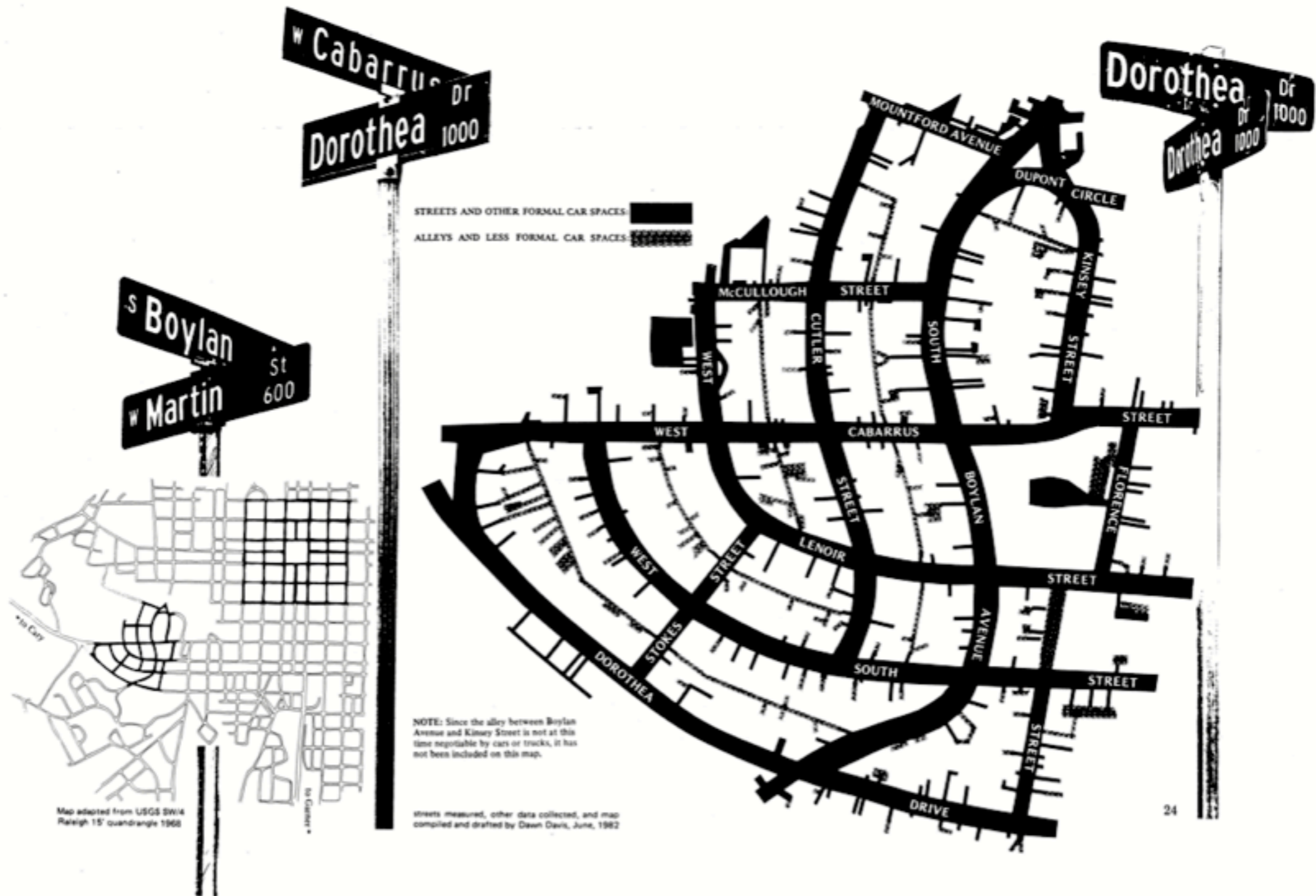
# Small-Scale Geographies



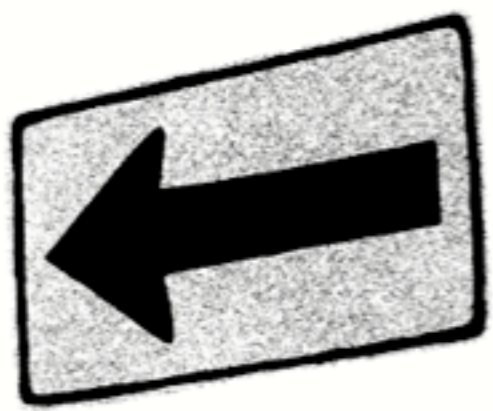


Tracking cursor movement on the screen for a days work. 10.5 hours using IOGraphica. UrbanTick

# Obsessive Psychogeography: Narrative Atlas of Boylan Heights, Raleigh, NC (1970-)



Car Space Map



Warning arrows at the corner of Dunthwa Drive and Boylan Avenue



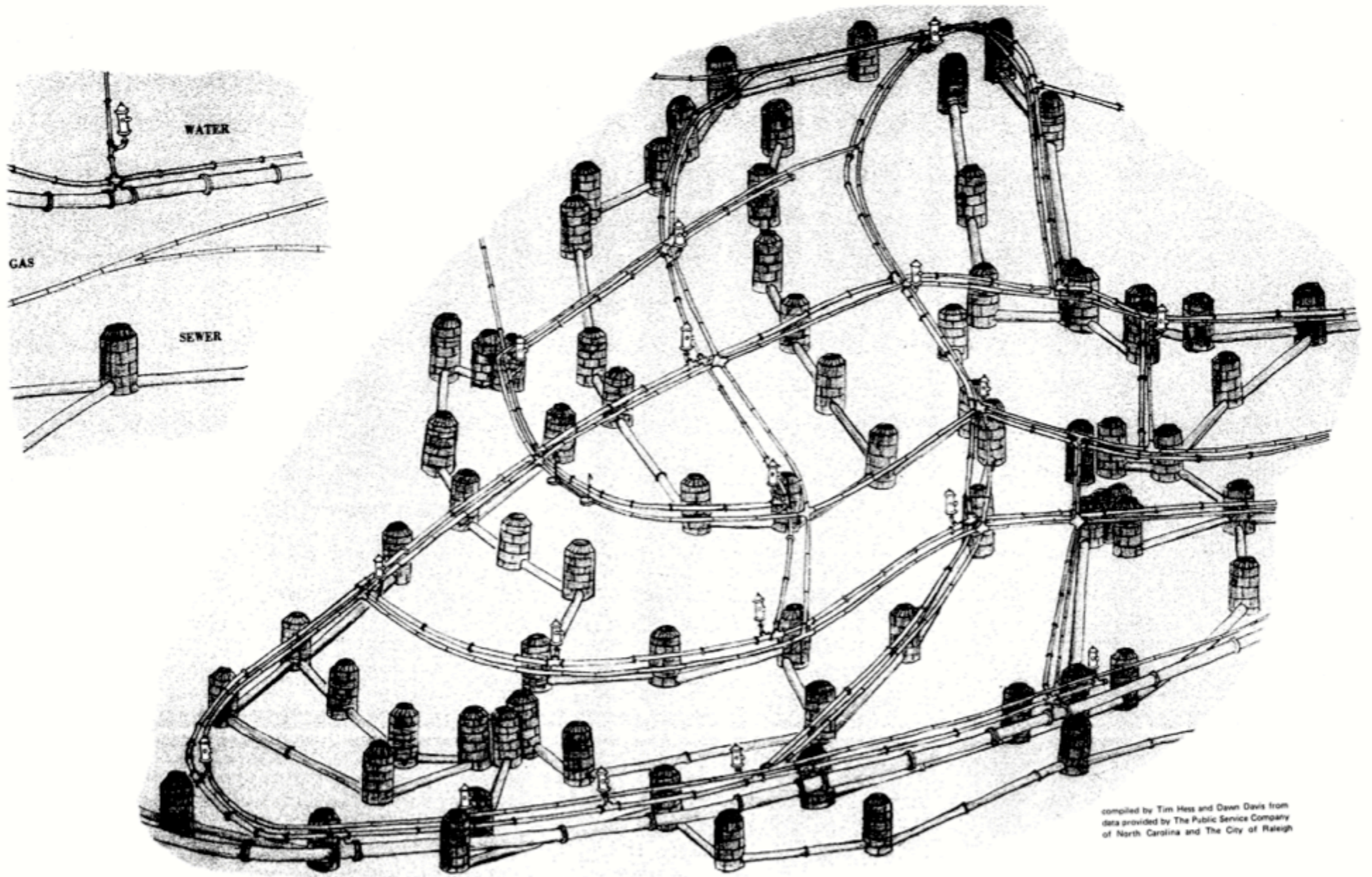
Data compiled by Dawn Davis, June 1982

# Sign Map

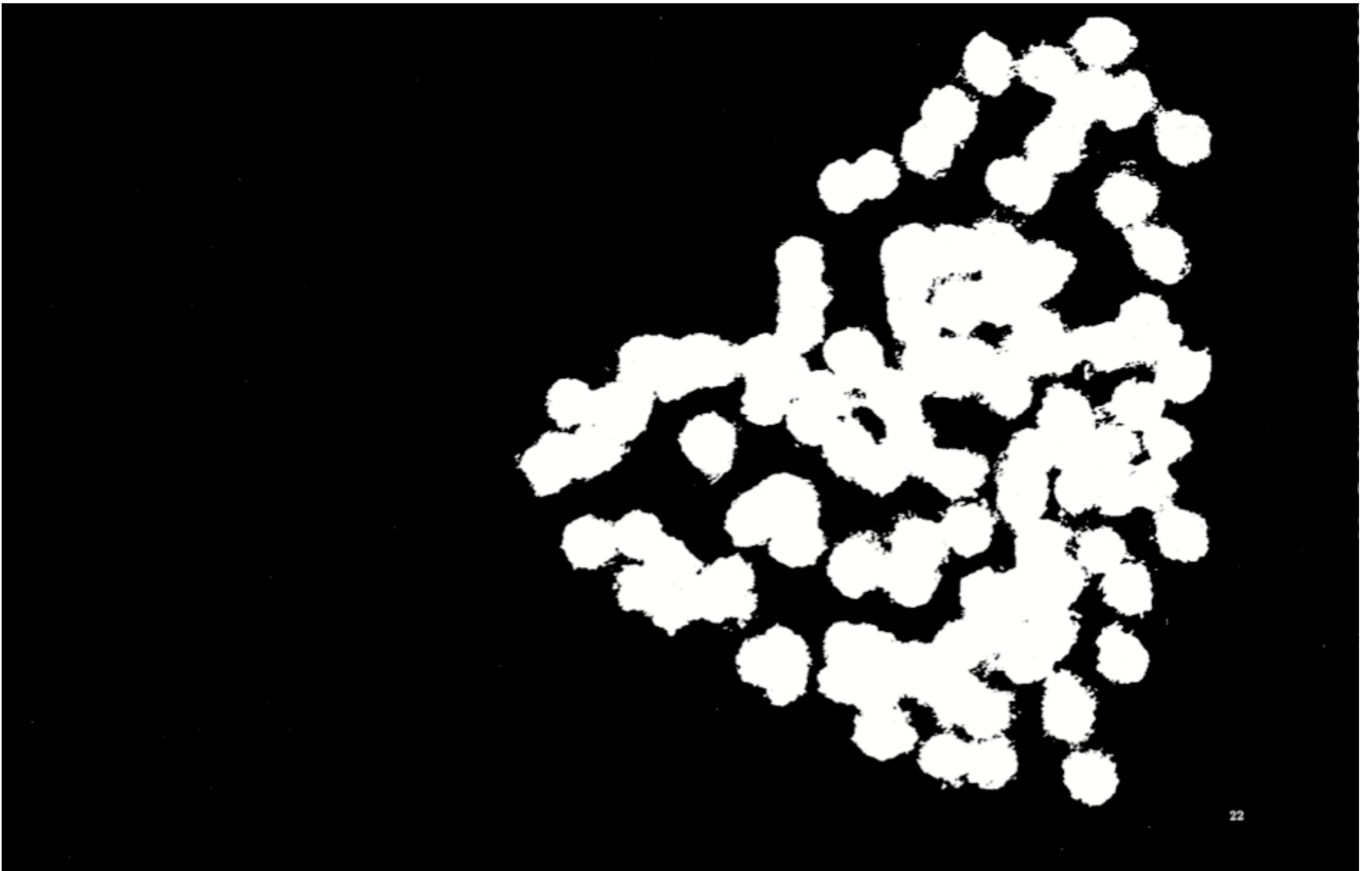




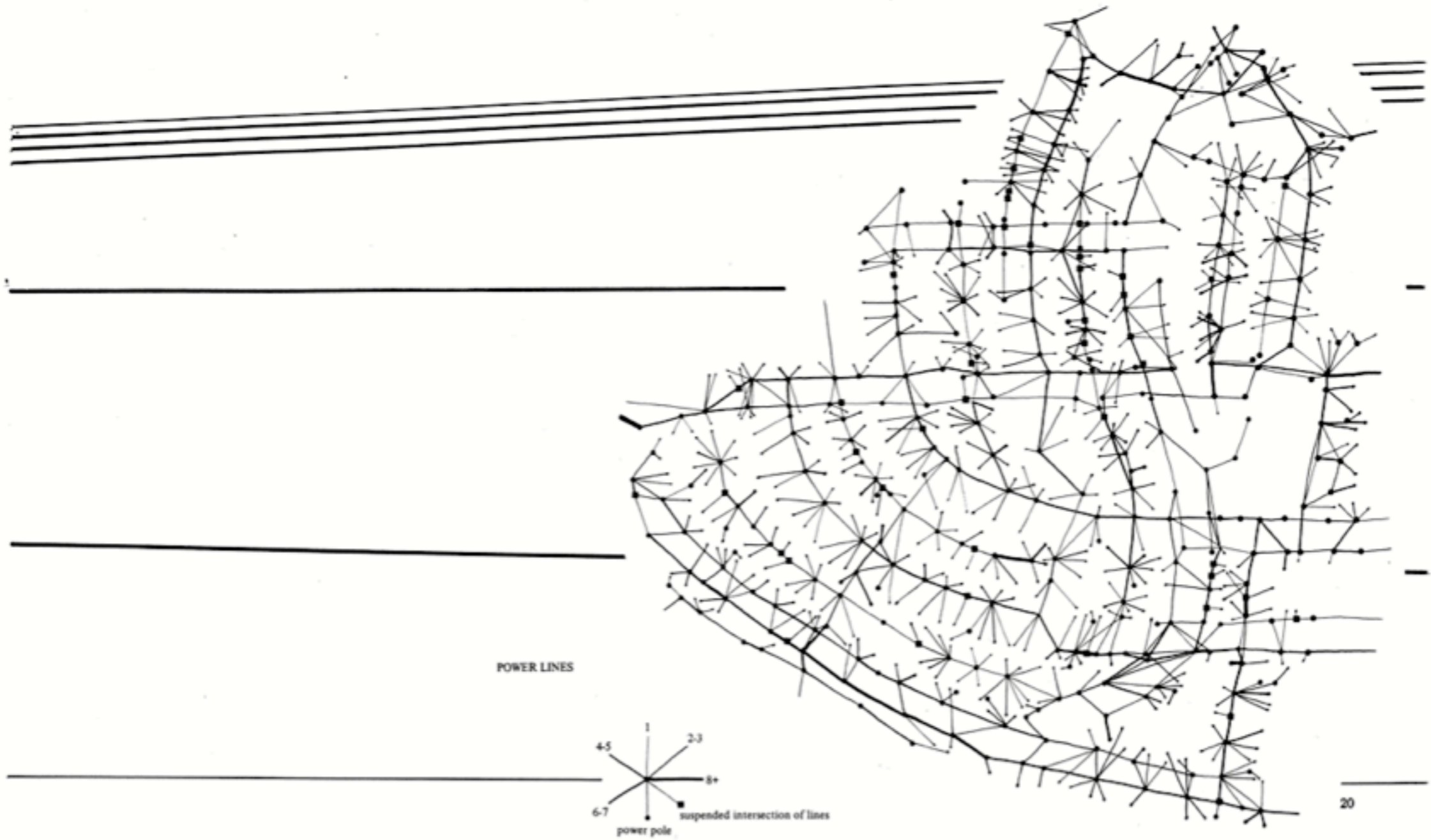
**Jack-o-lantern Map**



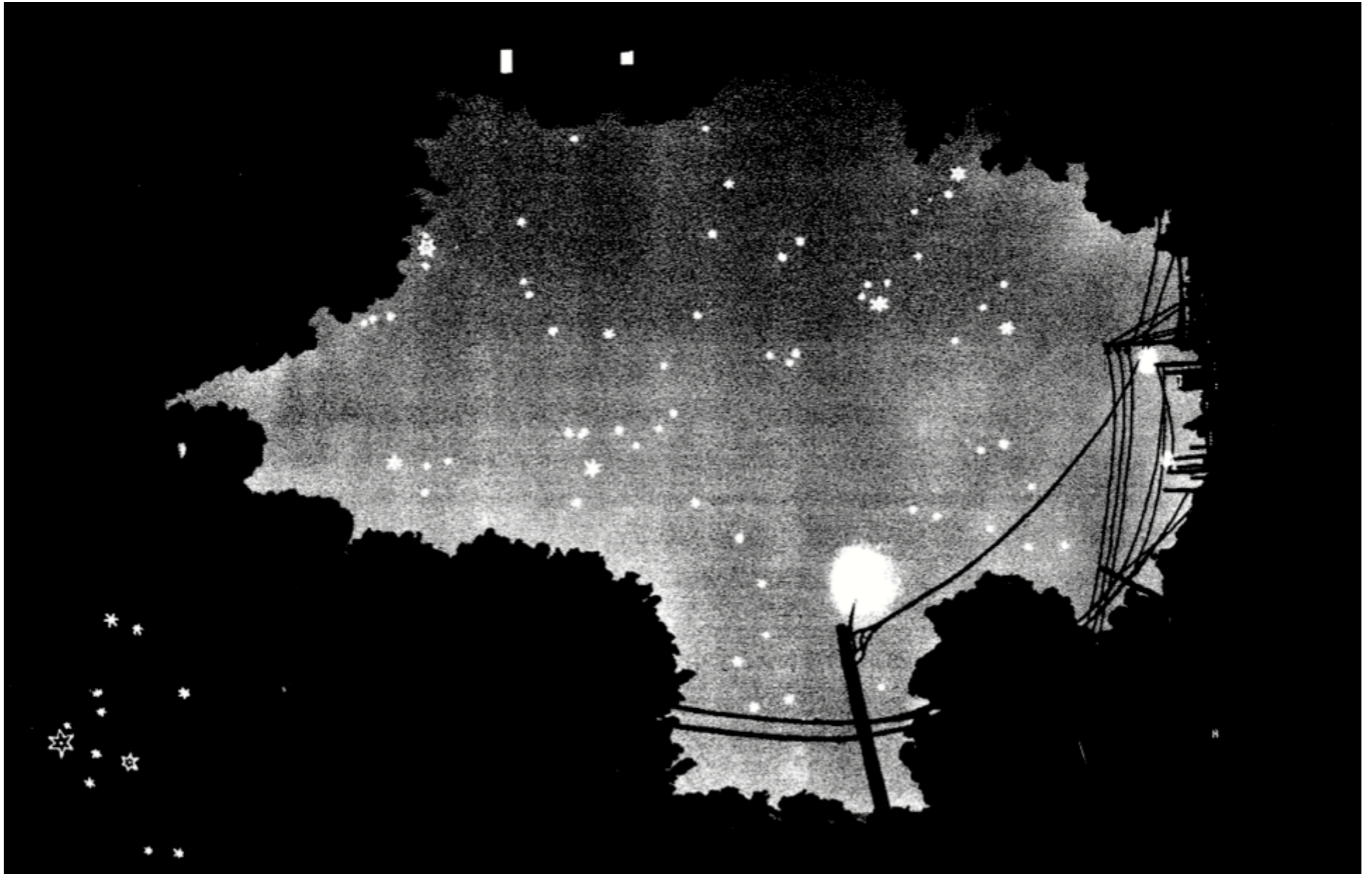
**Underground Map**



**Street Light Map**



**Lines Above Map**



**Stars Map**

**Selections from Atlas (100+maps planned:**

**Leaf-Light Map**

**Autumn Leaves**

**Mentions in Newsletter Map**

**Crime Map**

**Fences Map**

**Light at Night Map**

**Graffiti Map**

**Street Signs Map**

**Underground Map**

**Jack-O-Lantern Map**

**Streetlight Map**

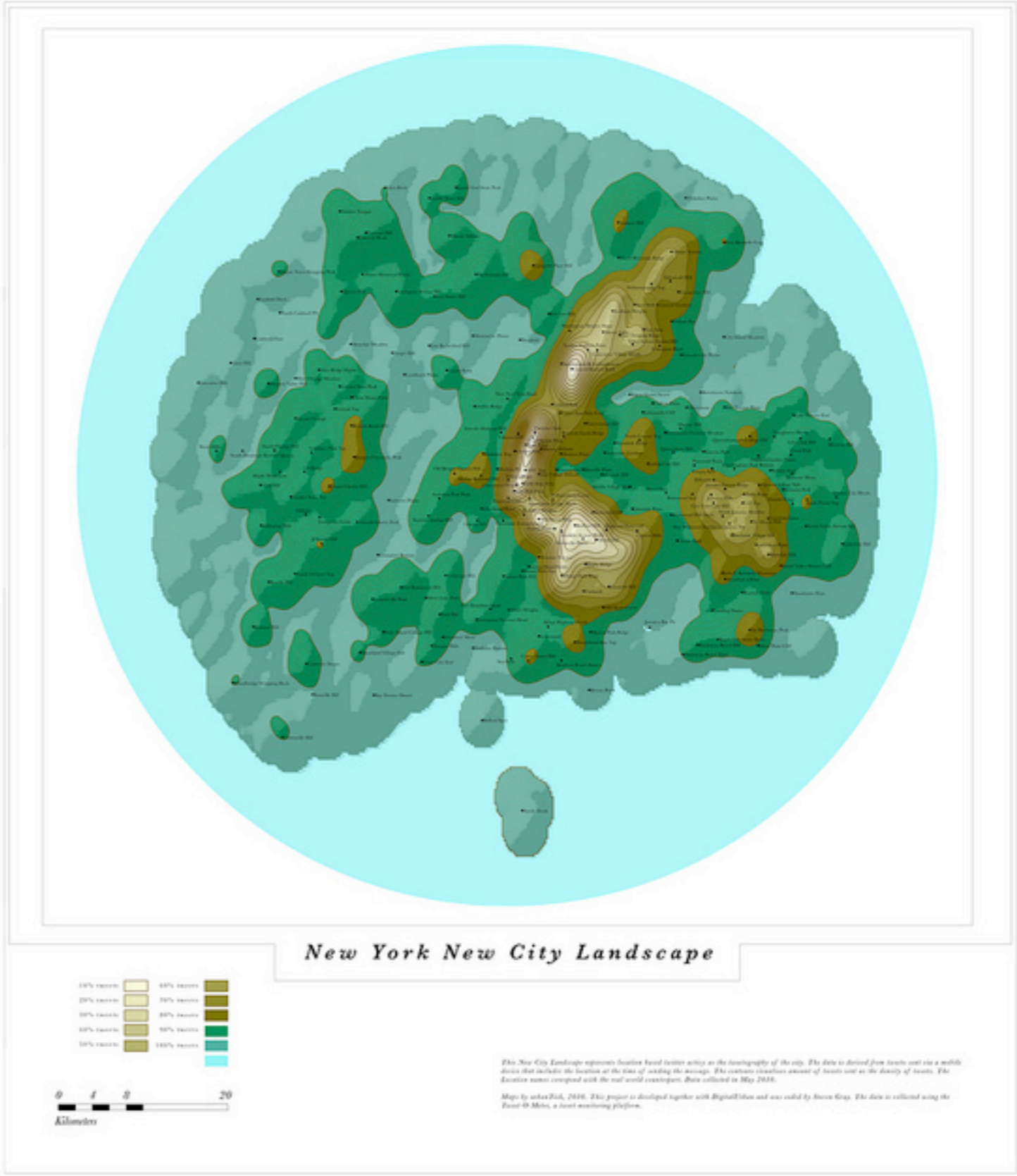
**Lines Above Map**

**Stars Map**

**Textures Map**

**Boylan's Hill Map**

# Data Geographies

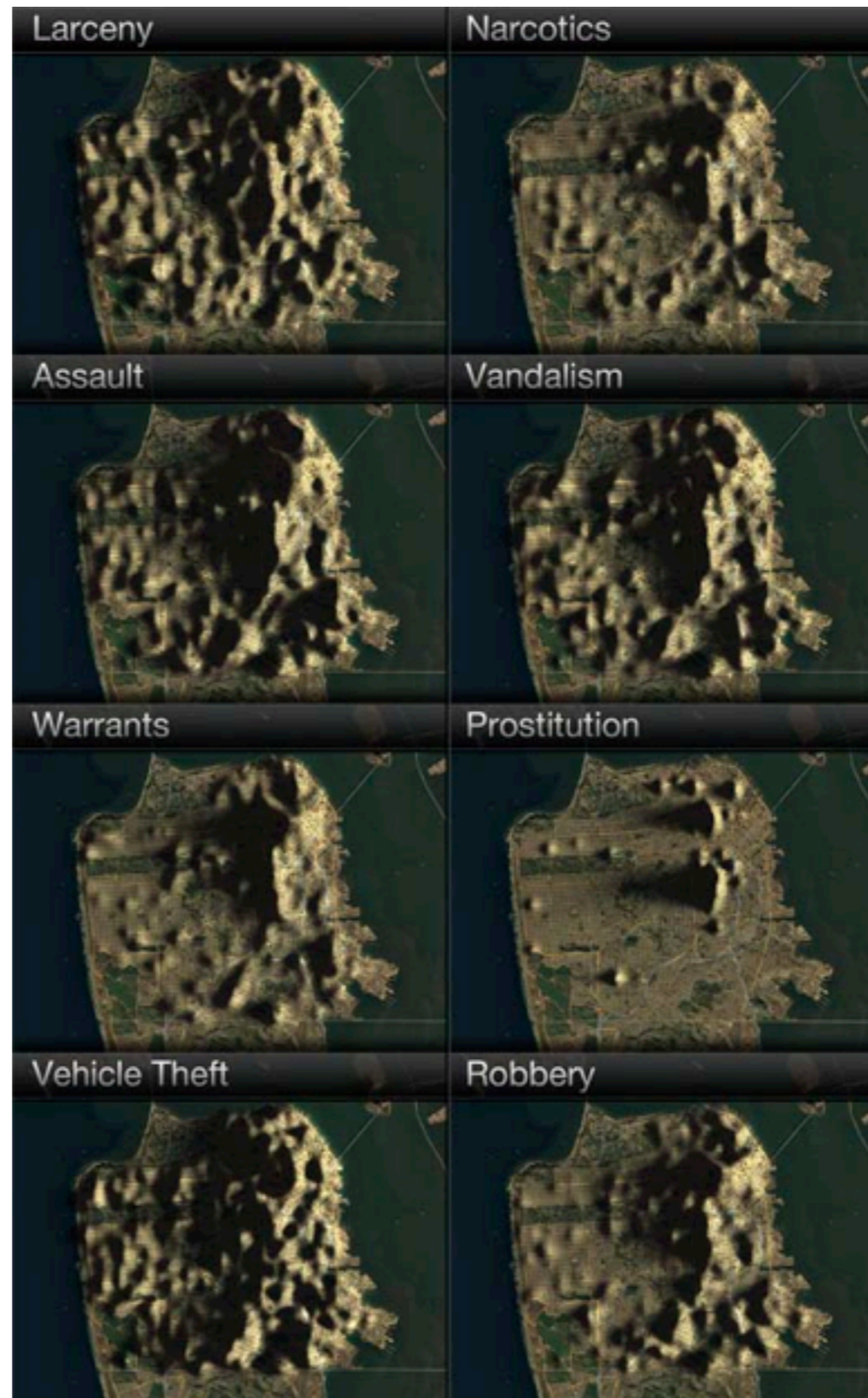


Fabian Neuhaus of the Centre for Advanced Spatial Analysis/UrbanTick on Flickr



Twitter Island Map of New York, rendered with terragen 2. Fabian Neuhaus of the Centre for Advanced Spatial Analysis/UrbanTick on Flickr





Doug McCune, San Francisco Crime Maps; 2009 data for eight different types of crime

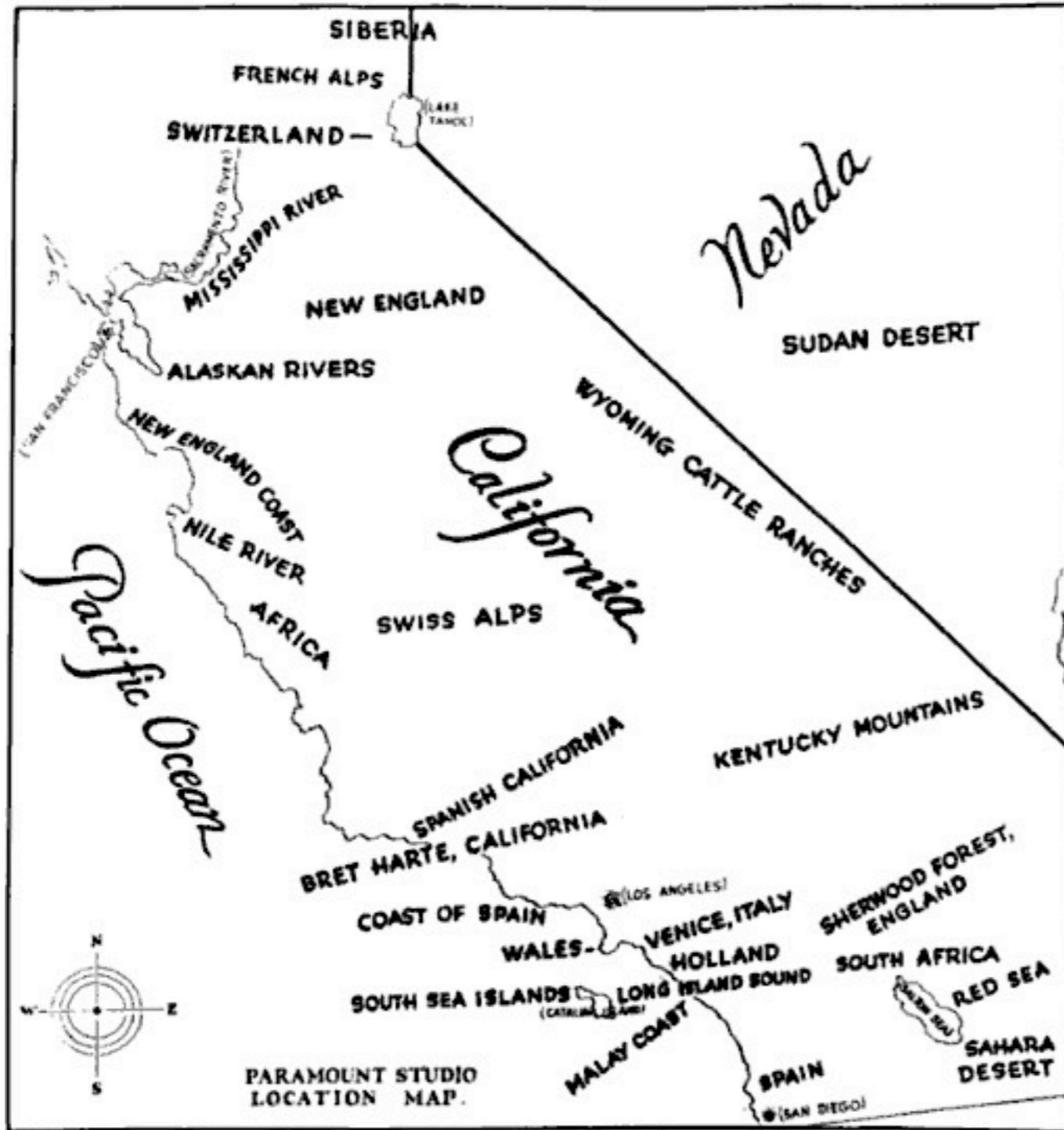
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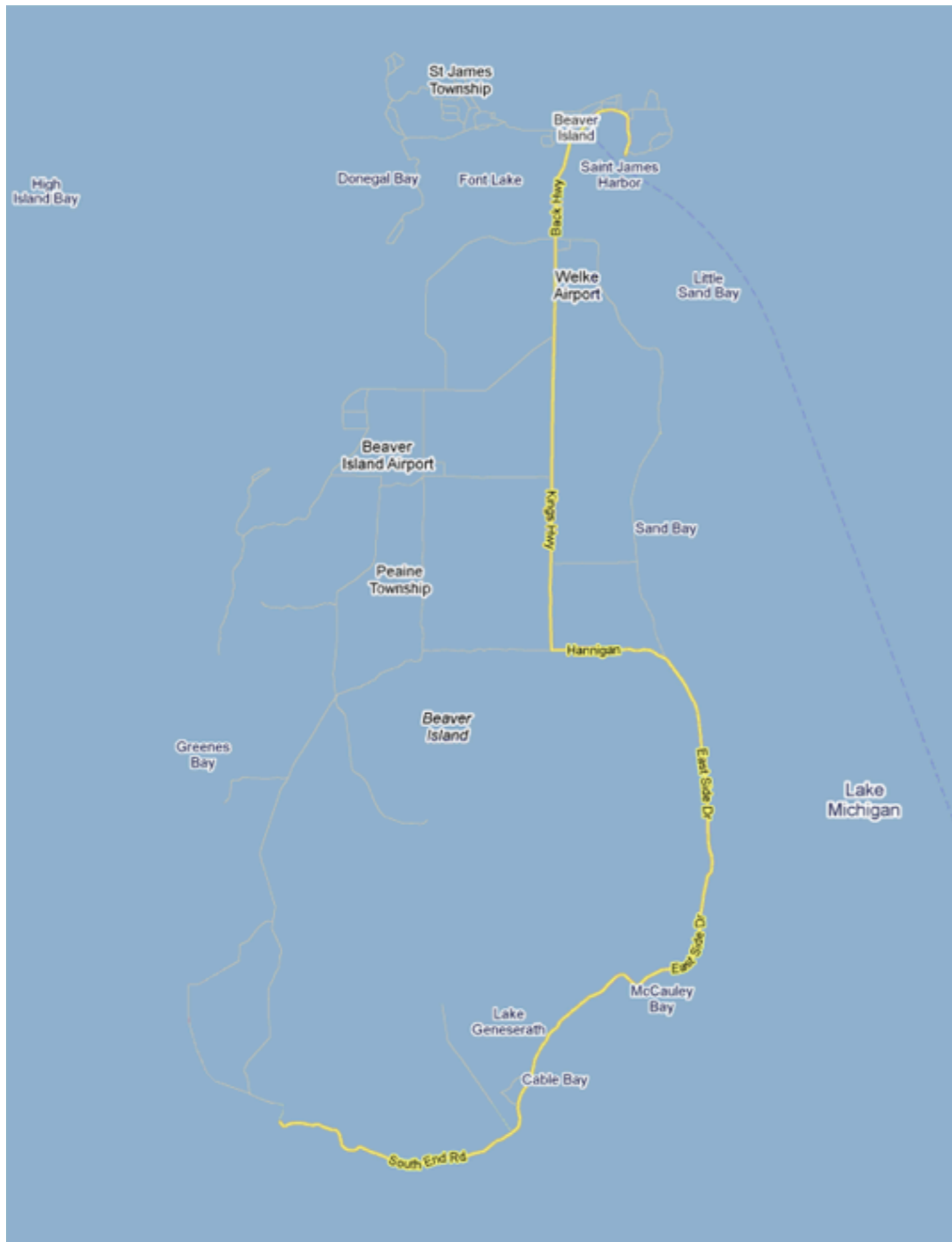
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britchie

Chaffinch Map of Scotland, Edwin Morgan

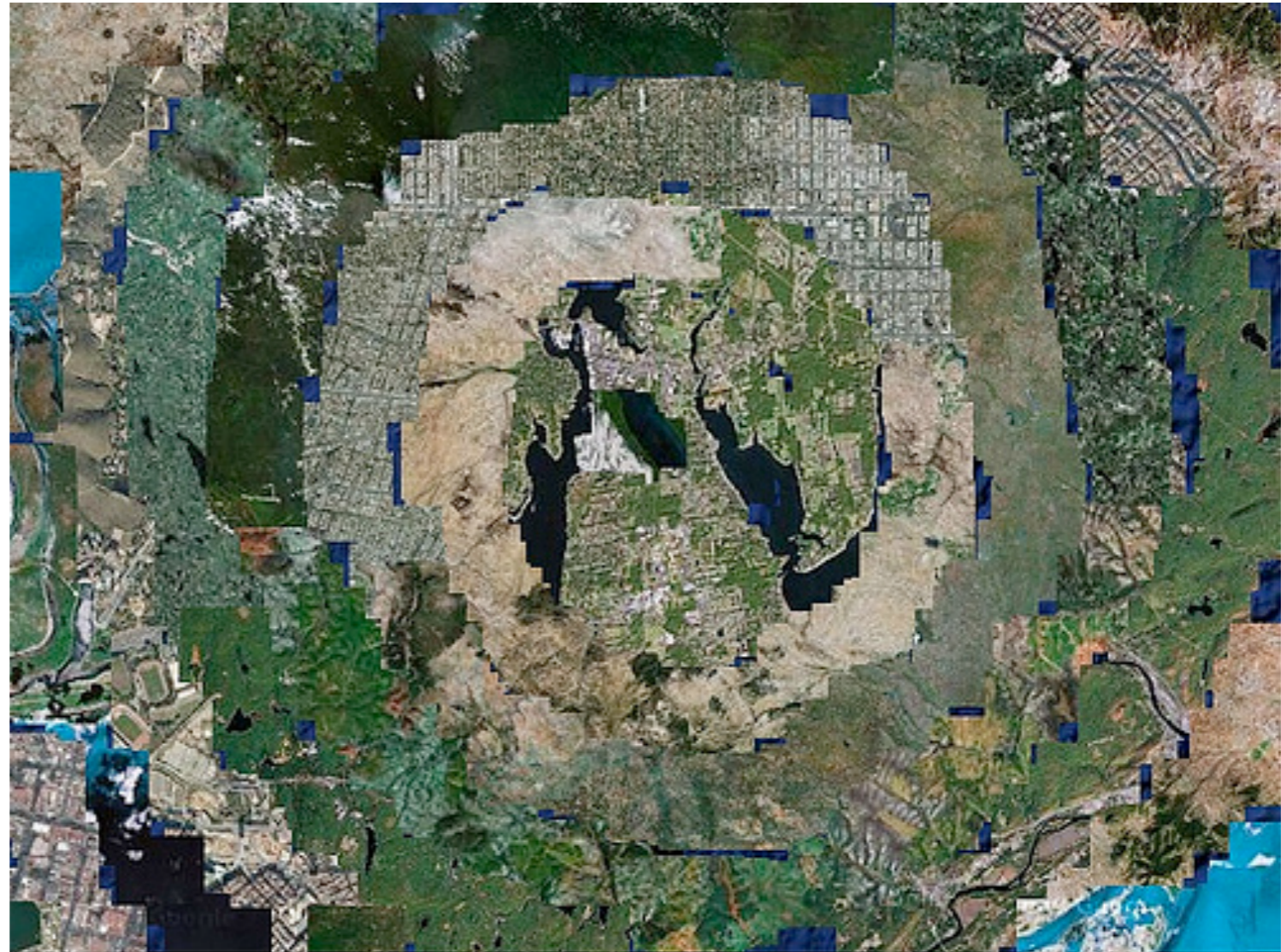
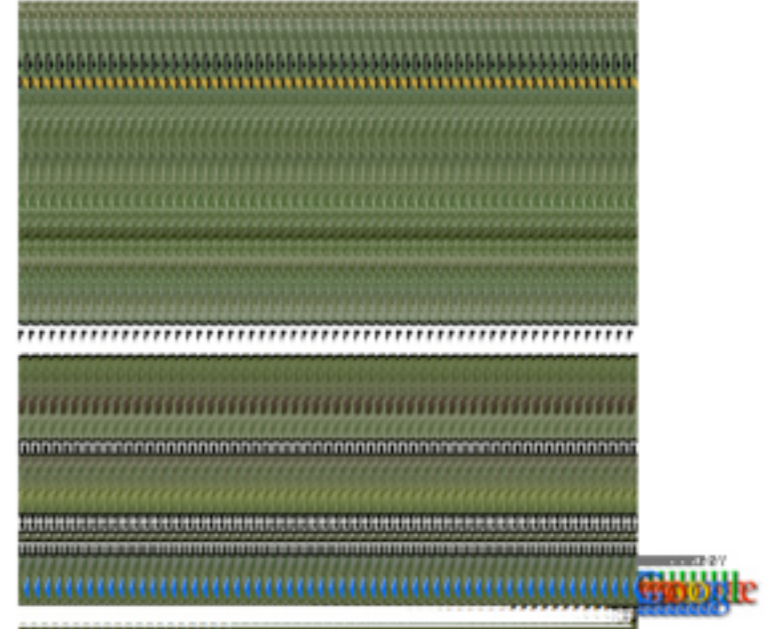
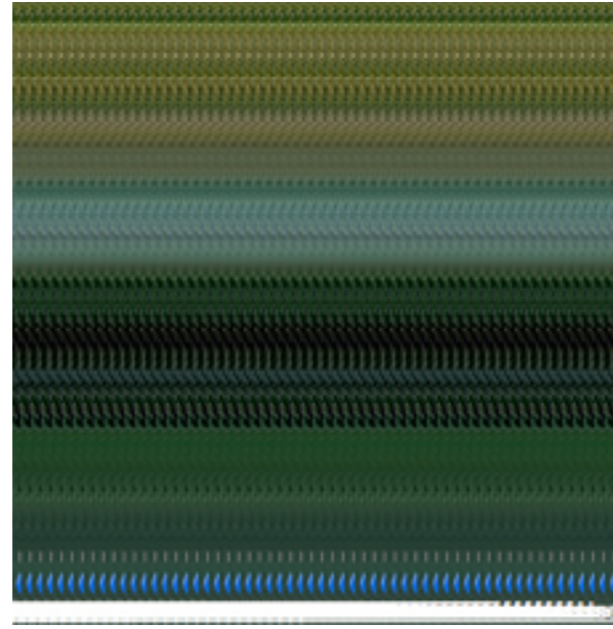
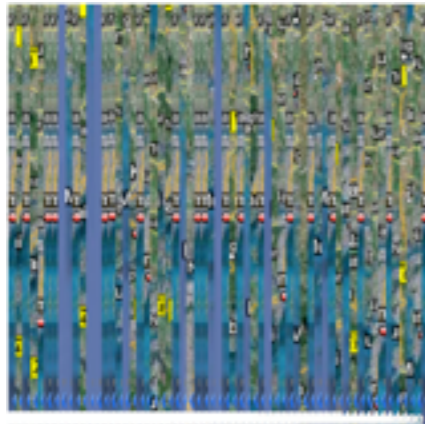
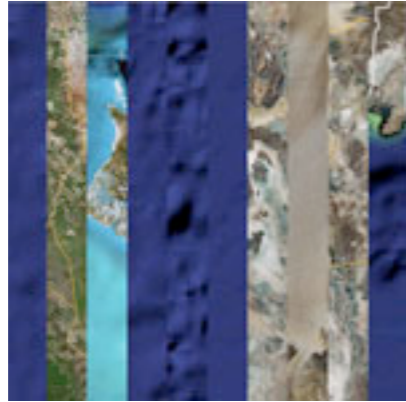
# Geographic Collisions

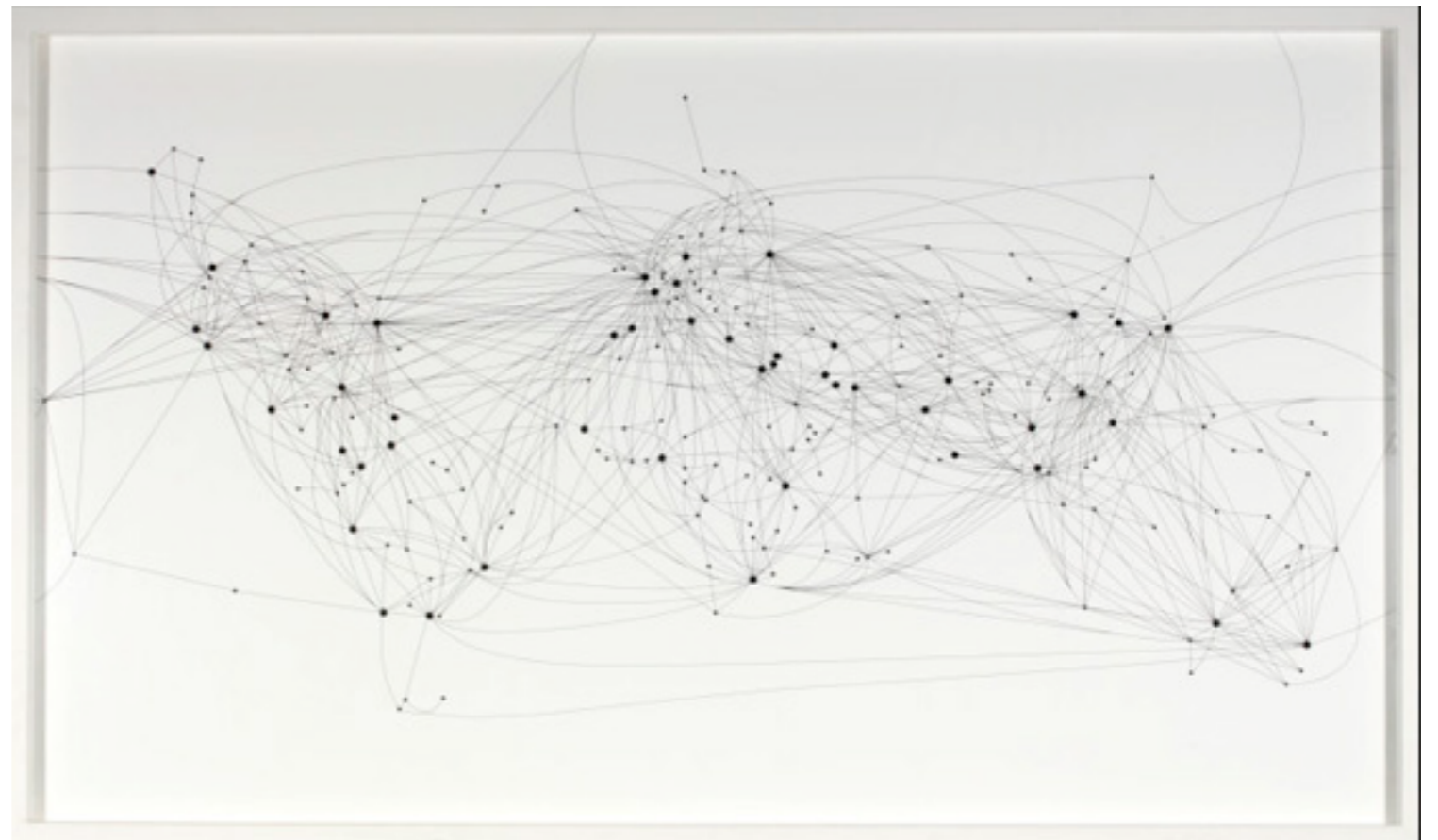
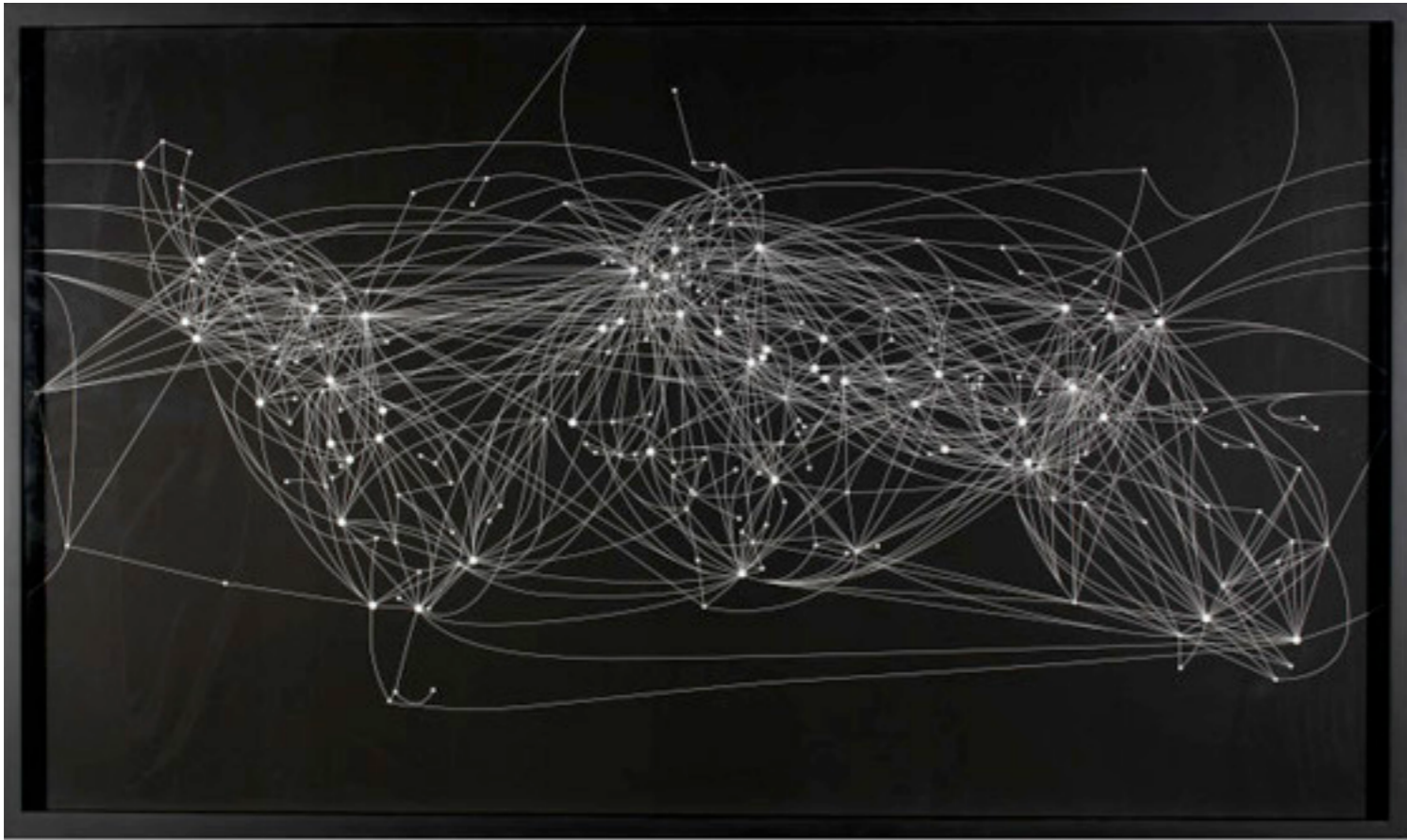


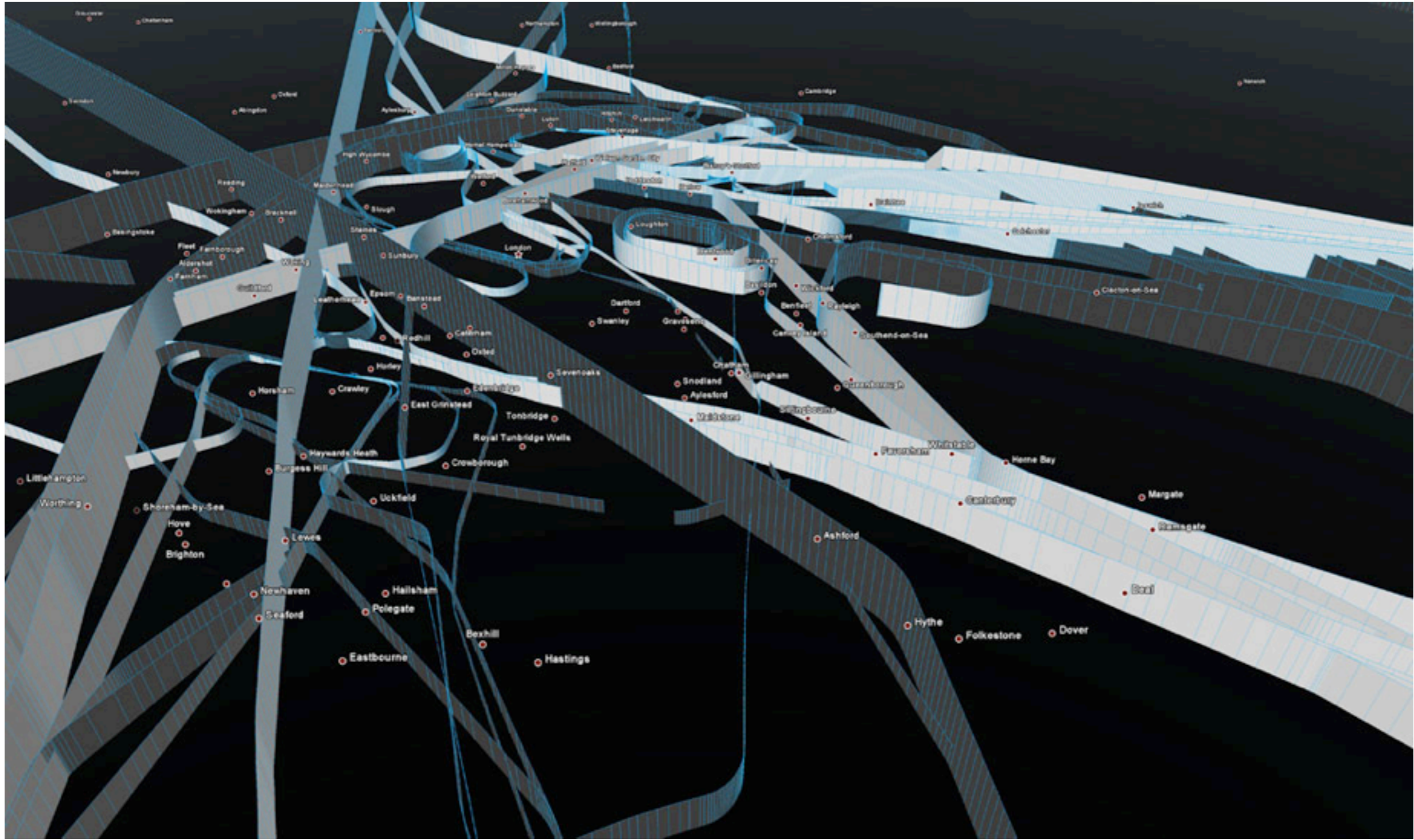


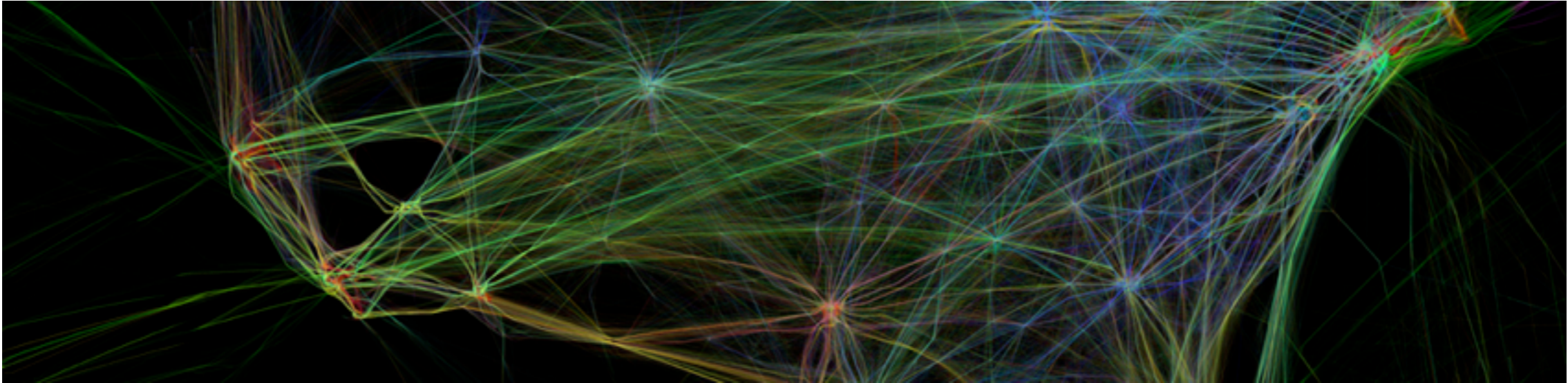
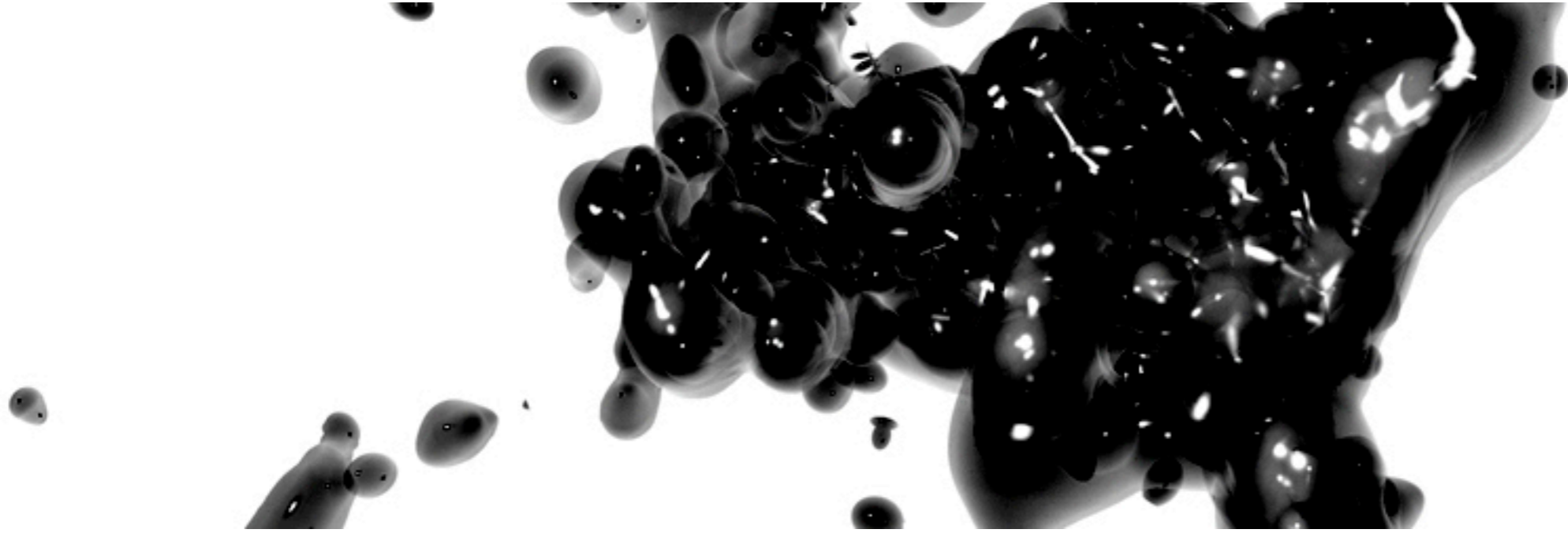
Google Maps display of Beaver Island, Michigan via Daniel Huffman's Cartastrophe blog

# Imagined Locations Toolset

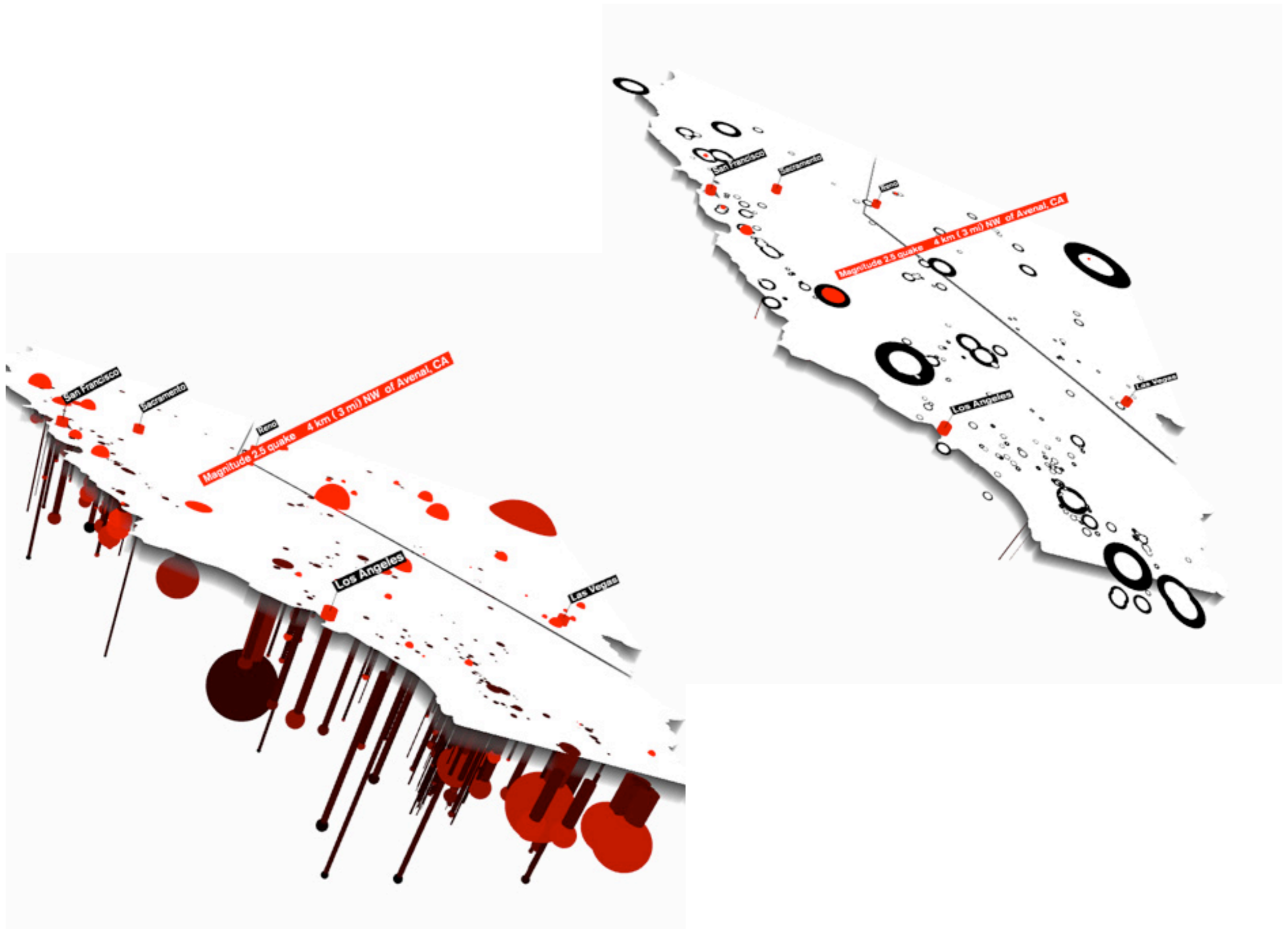






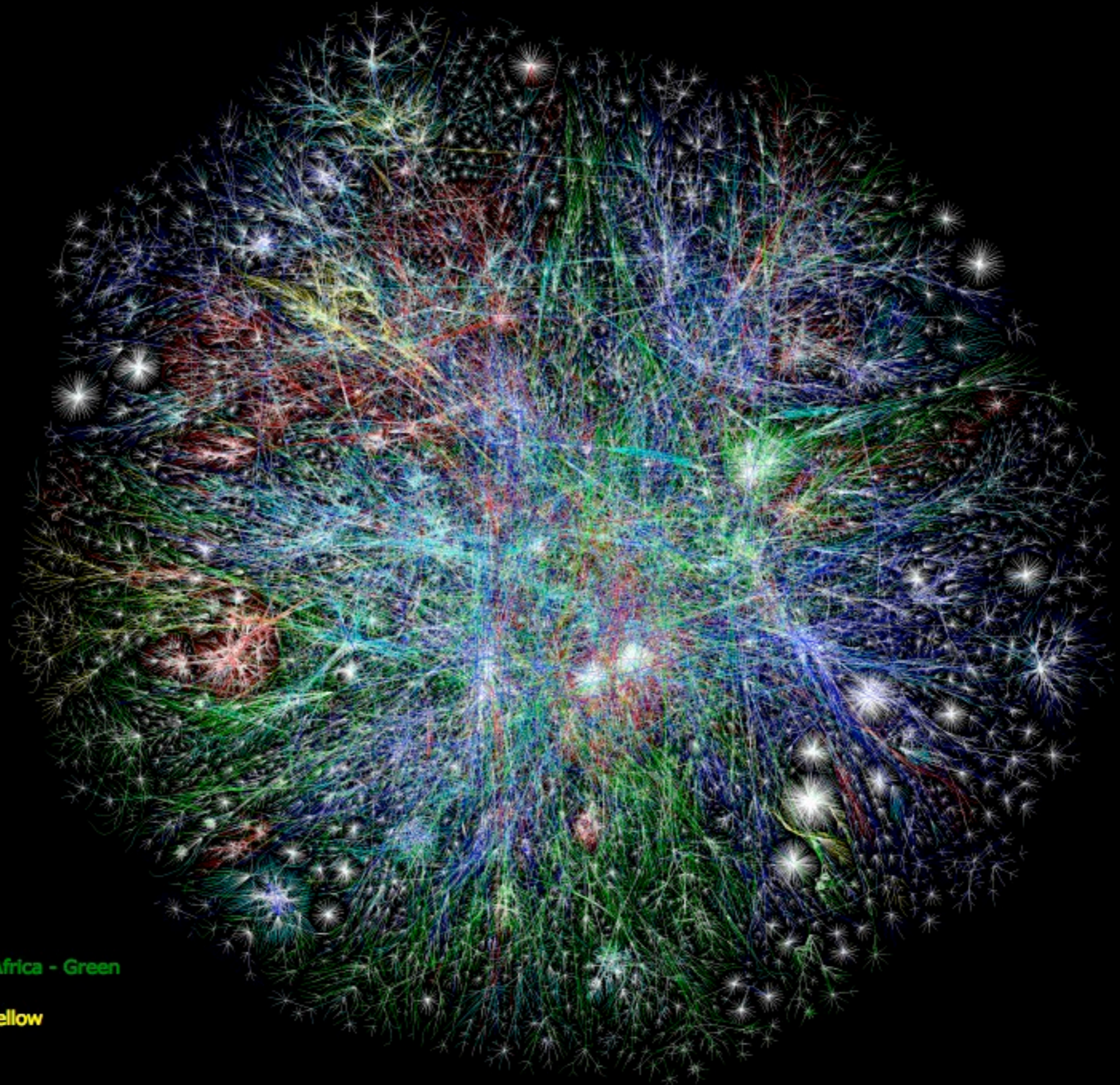






Length of the pillars represents the depth of the earthquake's center., thickness corresponds to magnitude.

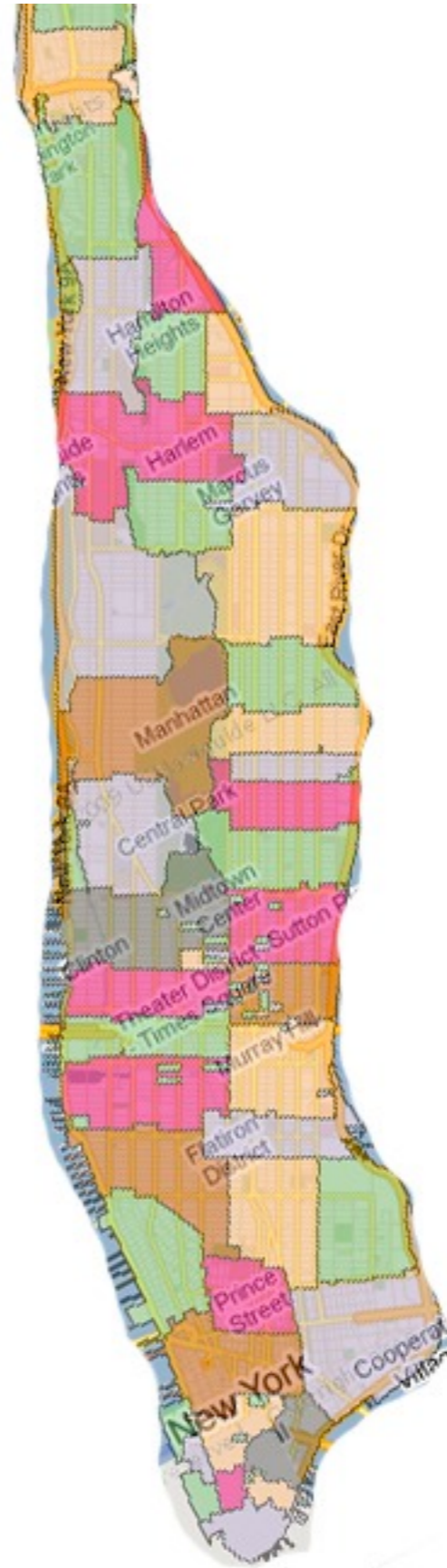
Nov 23 2003  
Opte Project



Asia Pacific - Red  
Europe/Middle East/Central Asia/Africa - Green  
North America - Blue  
Latin American and Caribbean - Yellow  
RFC1918 IP Addresses - Cyan  
Unknown - White

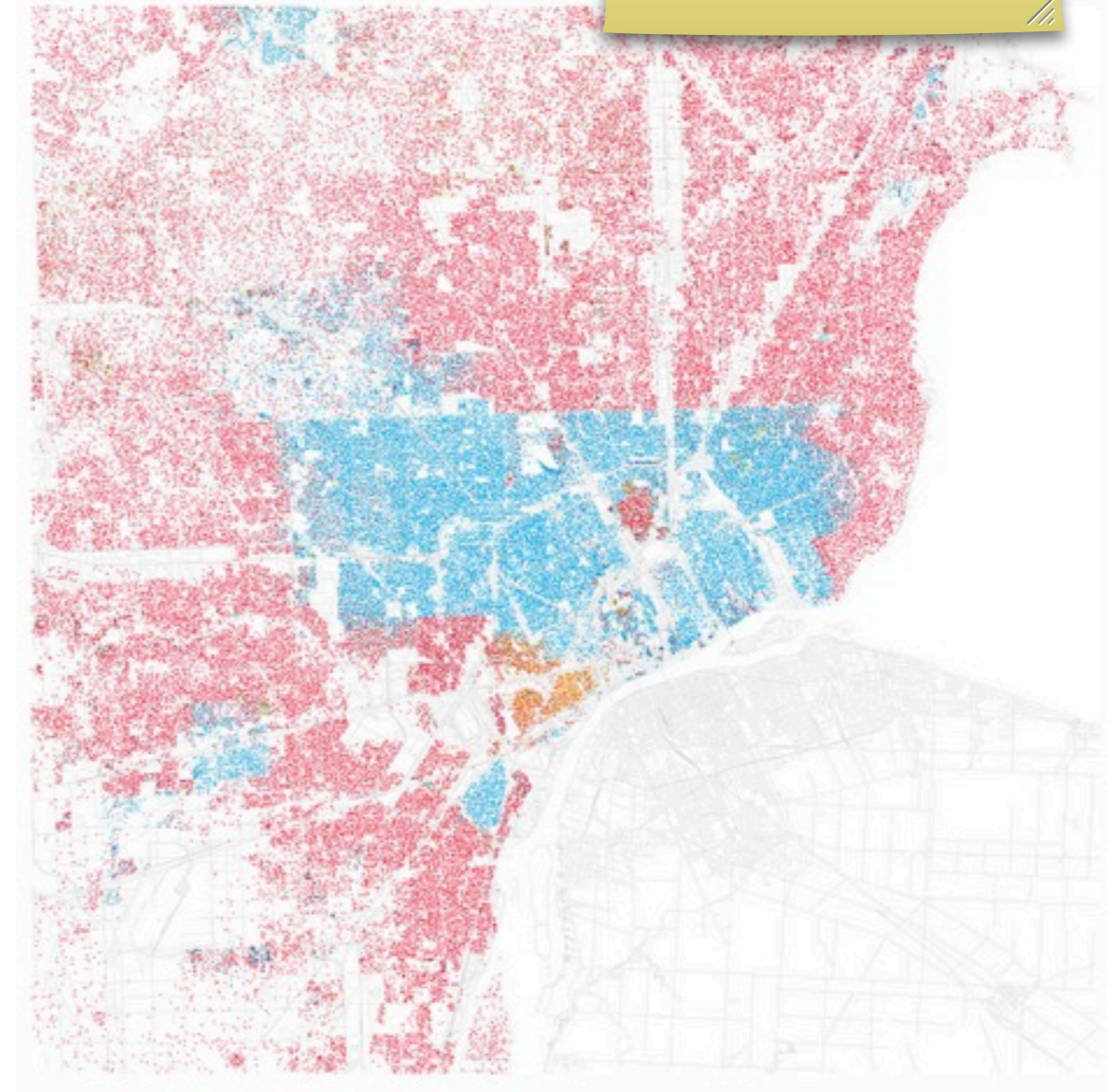


Claes Oldenburg  
1966



maps.huge.info/  
2009

Maps for political and demographic purposes

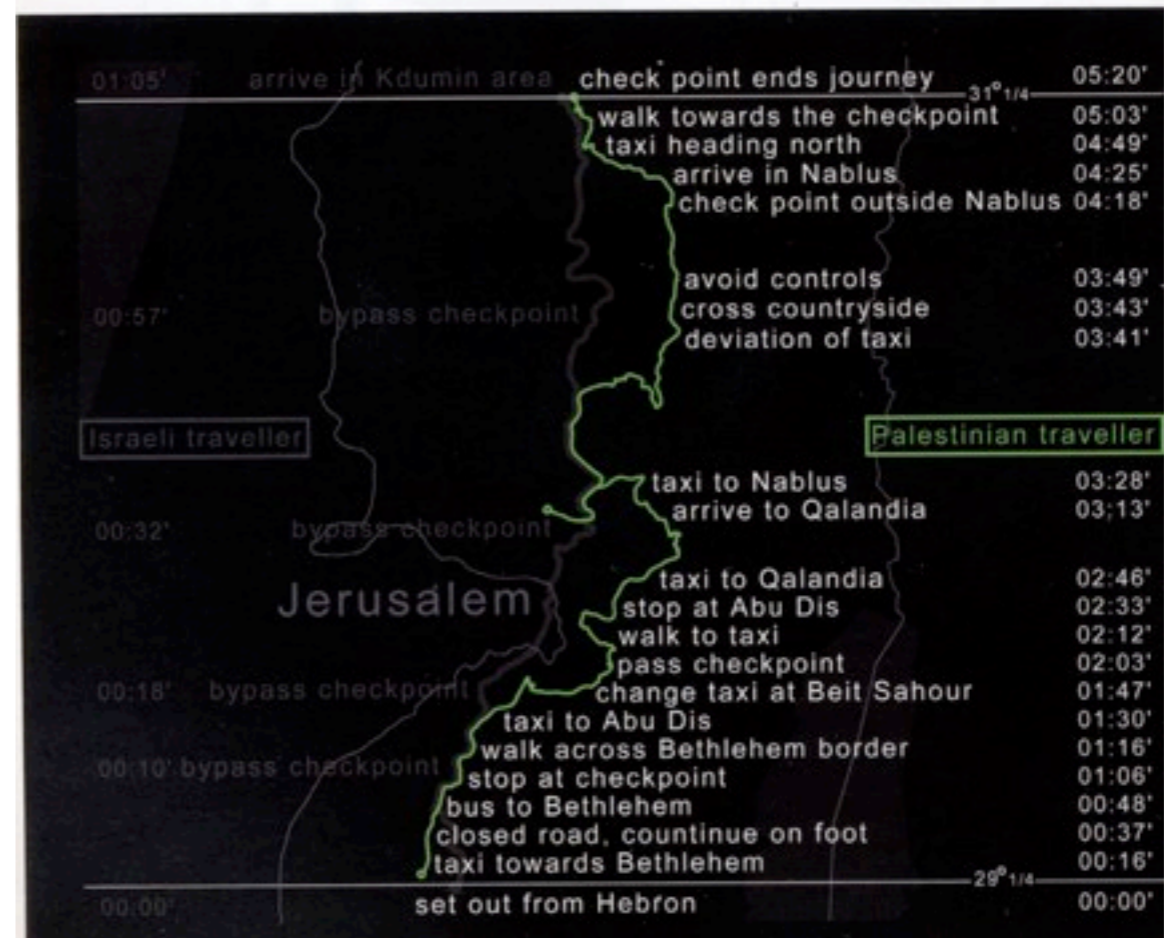
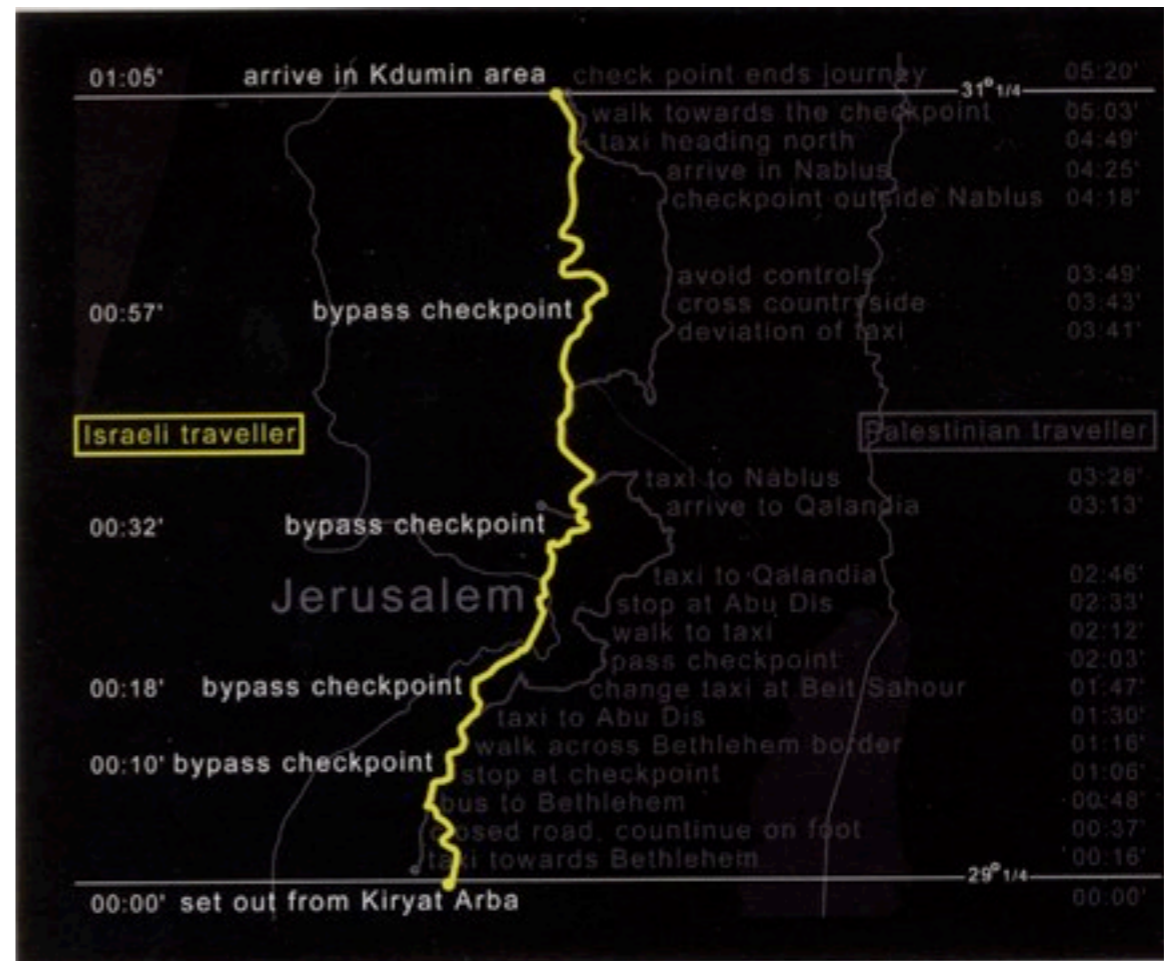


- Race and Ethnicity
- Eric Fischer

To match his map, Red is White, Blue is Black, Green is Asian, Orange is Hispanic, Gray is Other, and each dot is 25 people. Data from Census 2000

The West Bank territories are divided into three different zones: Zone A: under Palestinian Authority military and administrative control. It includes most Palestinian cities. Zone B: under Israeli military control, but under Palestinian Authority administrative control. It mostly includes Palestinian villages. Zone C: under Israeli military and administrative control. It includes most Israeli colonies. This partition produced a leopard-skin like territory, where the three zones alternate with each other without any apparent logic.

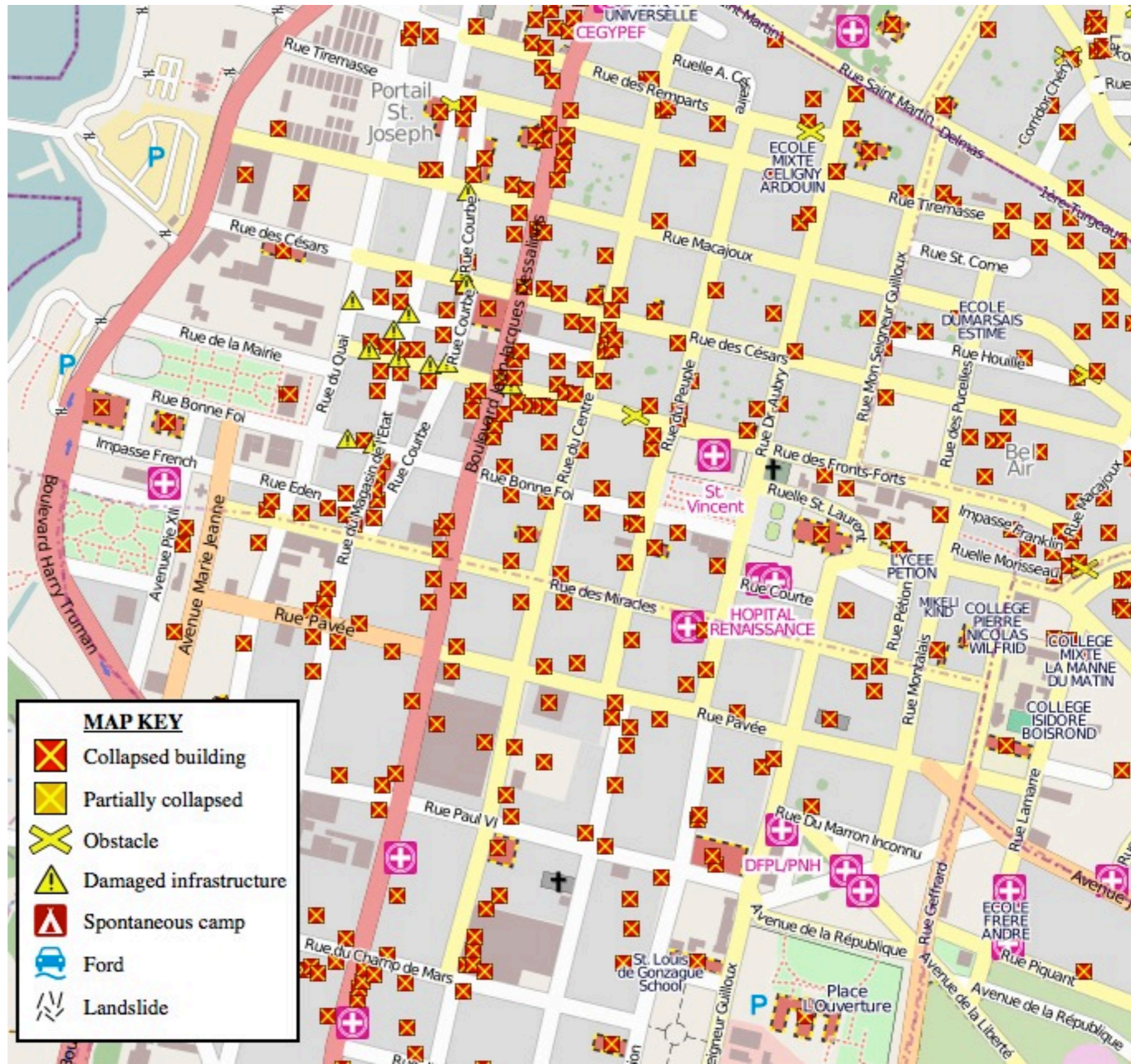
Multiplicity  
Solid sea 03 : The Road Map

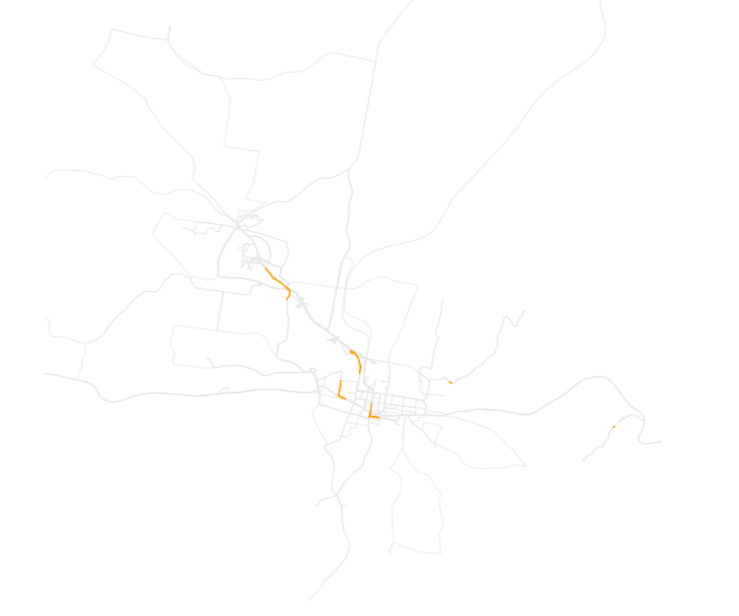
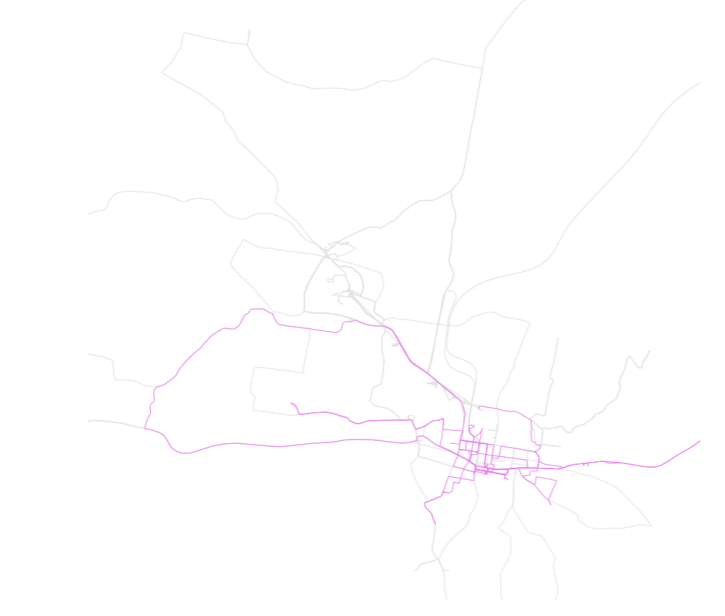
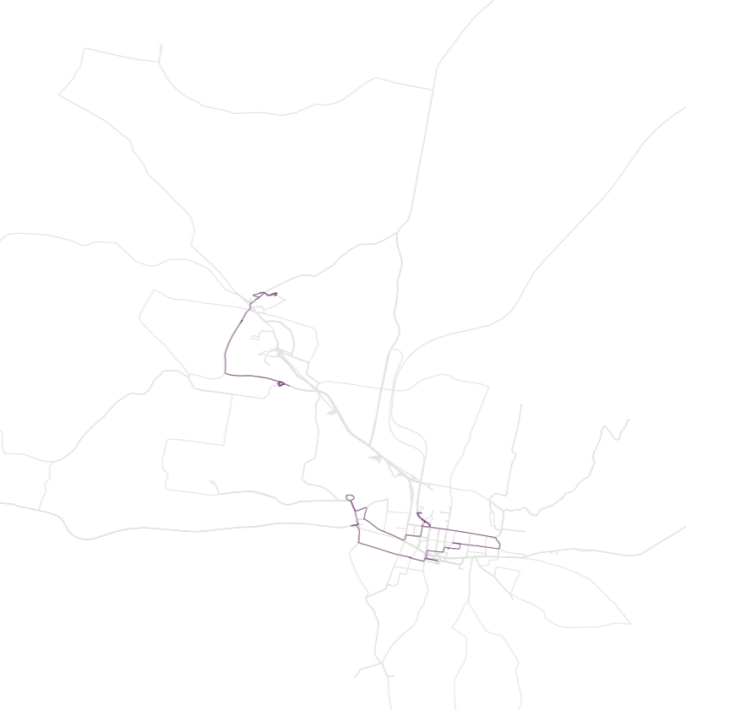
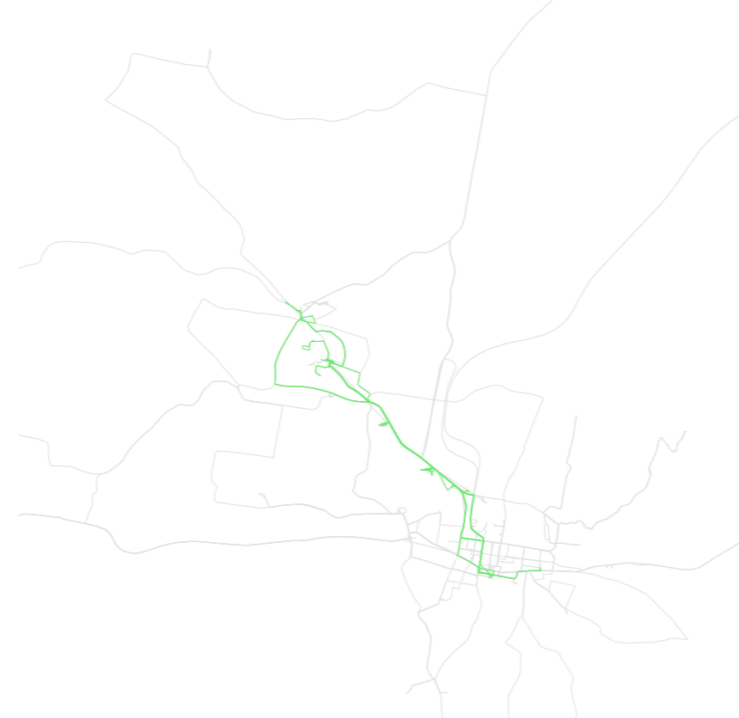
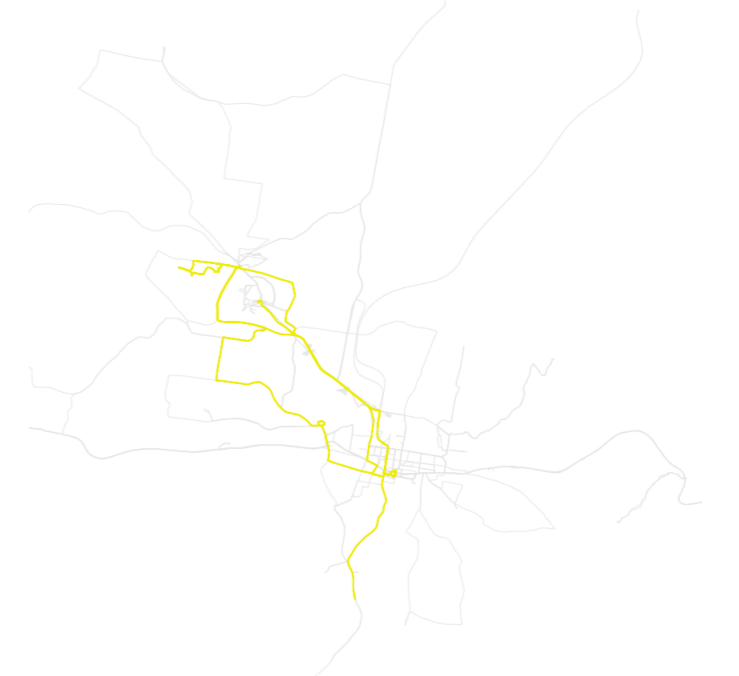
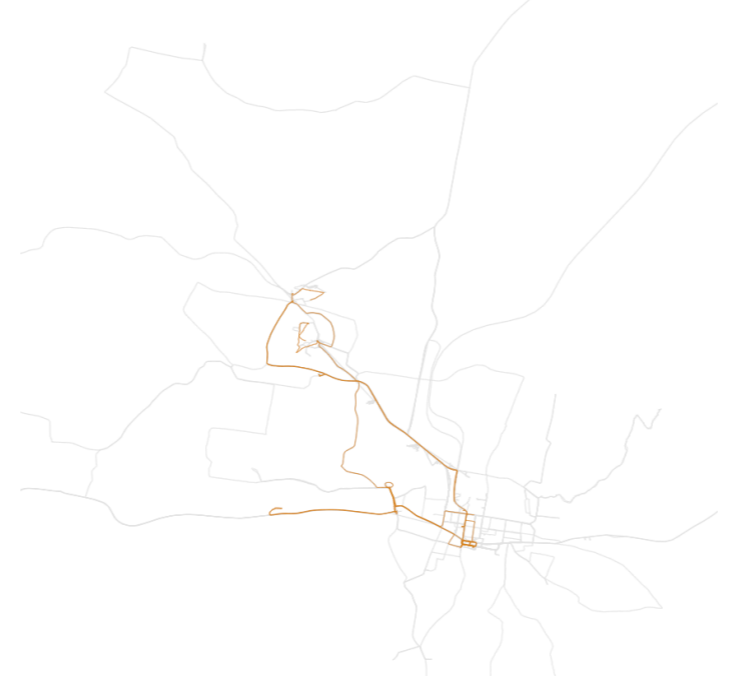


Threw baseball back to help kids  
 Went inside to get some water  
 Views towards city skyline  
 We were talking here  
 Here we split up - goodbye kiss  
 Ben left  
 She was  
 Girl watching  
 Dolores Park  
 Reminiscing  
 Everyone was naked and there was an immen  
 There was a couple on a Ves  
 Sat down here for a while and enjoyed the view.  
 Its surprisingly empty for a sunny afternoon  
 Checking out the view thinking about past times in the park  
 We were talking here  
 Ben left  
 She was  
 Girl watching  
 Dolores Park  
 Reminiscing  
 Everyone was naked and there was an immen  
 There was a couple on a Ves  
 Sat down here for a while and enjoyed the view.  
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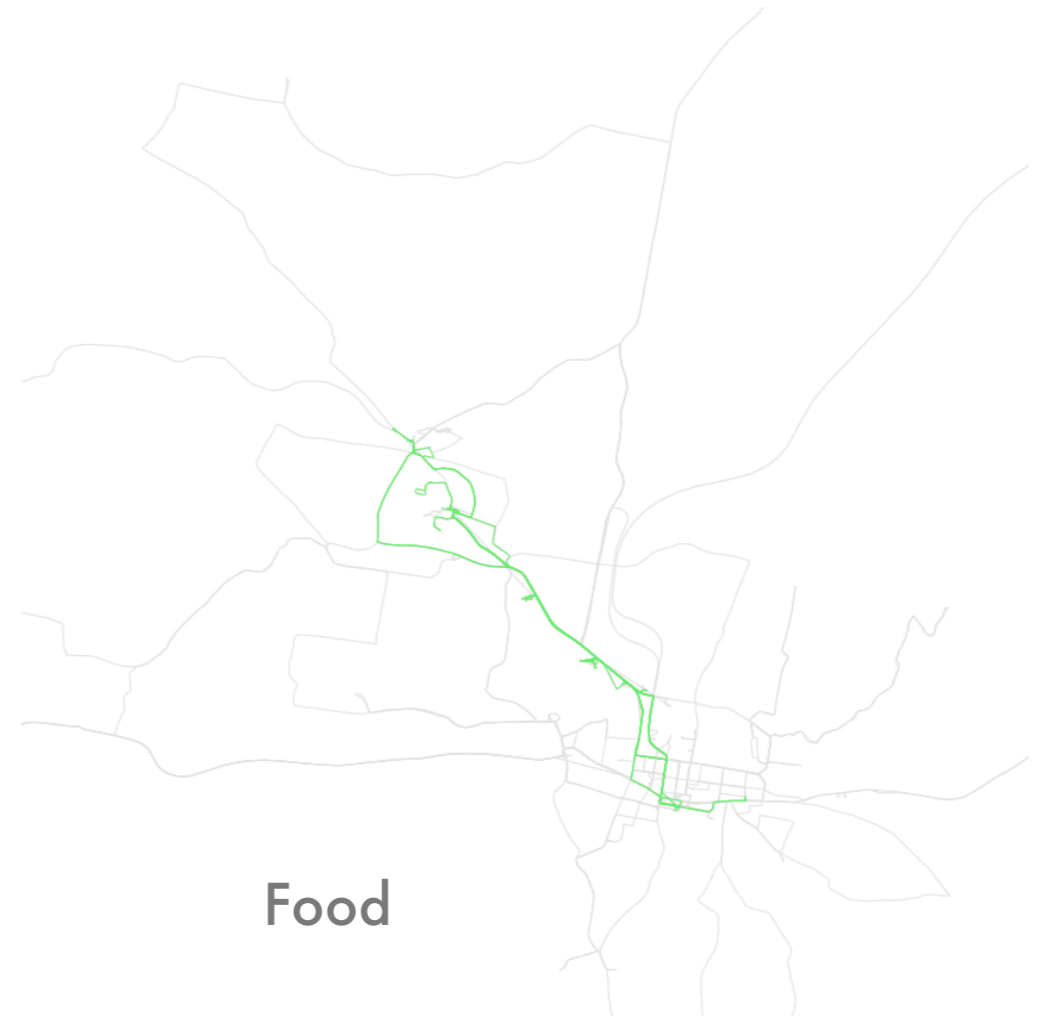
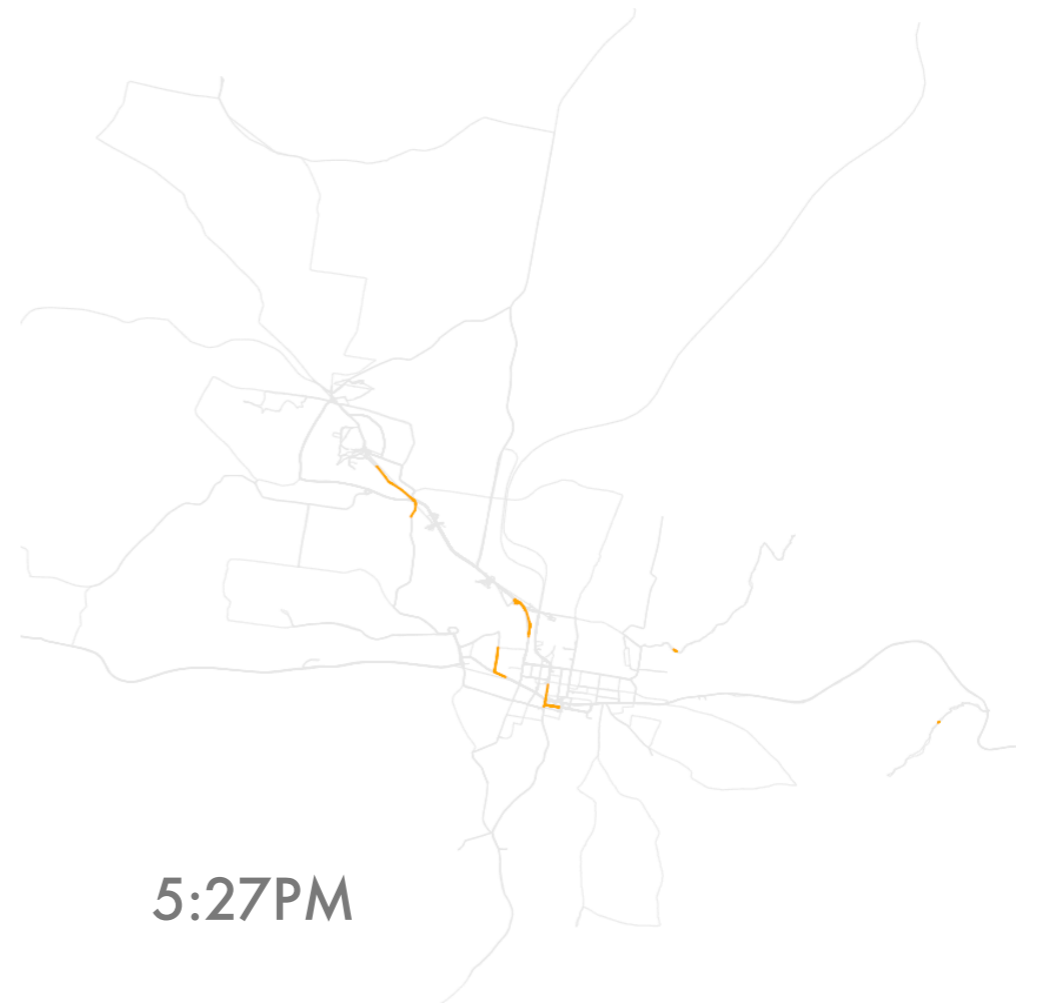


Christian Nold  
 Emotion Map: San Francisco





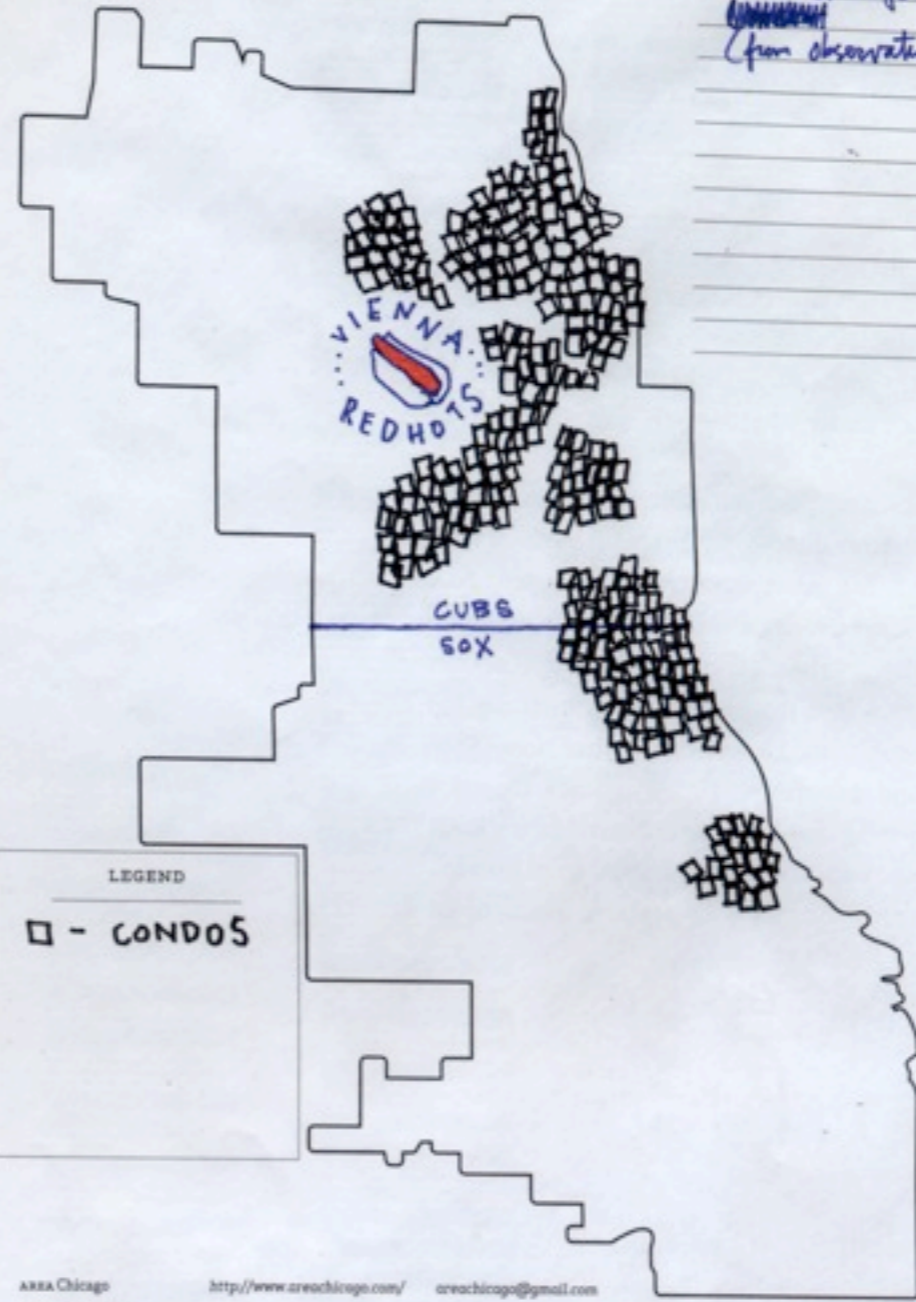




# Chicago

## NOTES

Things I know  
about Chicago...  
~~Chicago~~  
(from observation)



Condos  
Notes for a People's Atlas of Chicago

*Table 1.1* Rules for knowing the world: binary opposites around which ideas coalesce

---

Mind	Body	Structure	Agency
Empirical	Theoretical	Process	Form
Absolute	Relative	Production	Consumption
Nomothetic	Ideographic	Representation	Practice
Ideological	Material	Functional	Symbolic
Subjective	Objective	Immutable	Fluid
Essence	Immanence	Text	Context
Static	Becoming	Map	Territory

---