

中国海南島リー族1村落の土地利用 (1985～2004)

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Shuiman & Paori



1. Shuiman Hamlet

Altitude: 600m

Household: 32

Population: 190

Subsistence: Rice
Cultivation

2. Paori Hamlet

Altitude: 200m

Household: 28

Population: 179

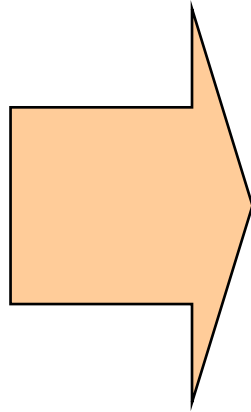
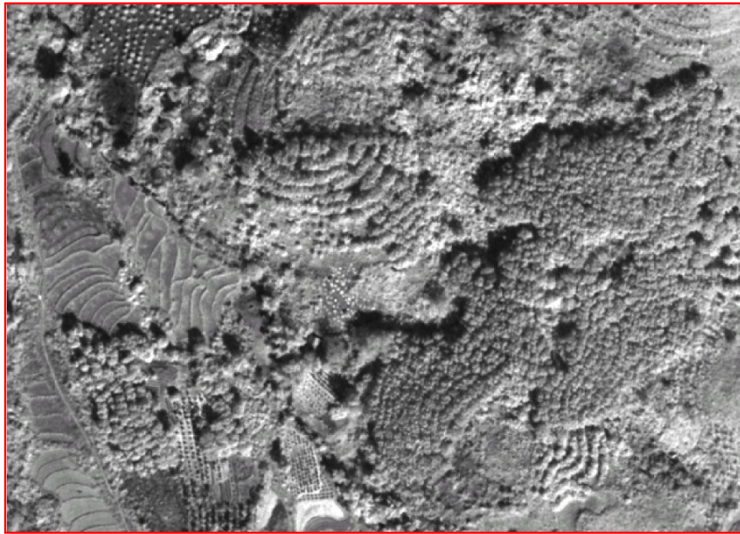
Subsistence: Rice
Cultivation and Cash
cropping

Political change in rural China

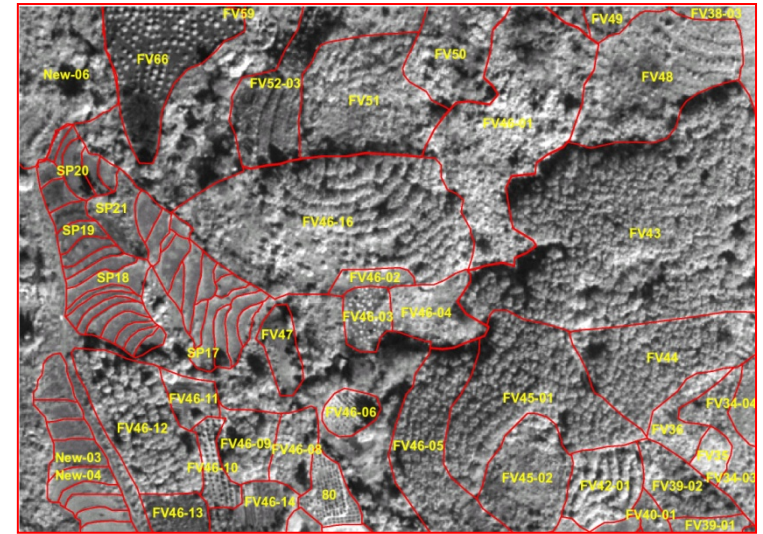
- 1950s-80s People's Commune (人民公社)
- Collective ownership
 - Collective operation
- 1980s- Market Economy
- Land assignment (土地分配)
 - Household Responsibility System (世帯請負制)
 - Cash cropping
-

Land use survey (first stage)

QuickBird Satellite image



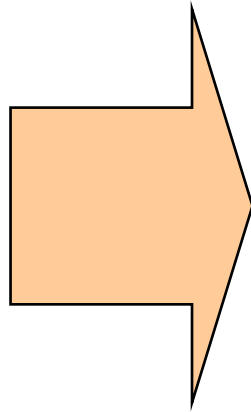
Label / Boundary /
Vegetation



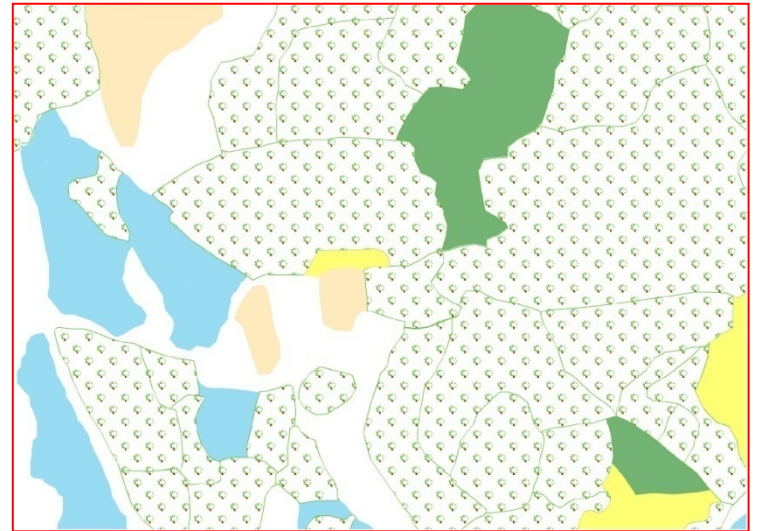
Land use survey (second stage)

Interview to landowner

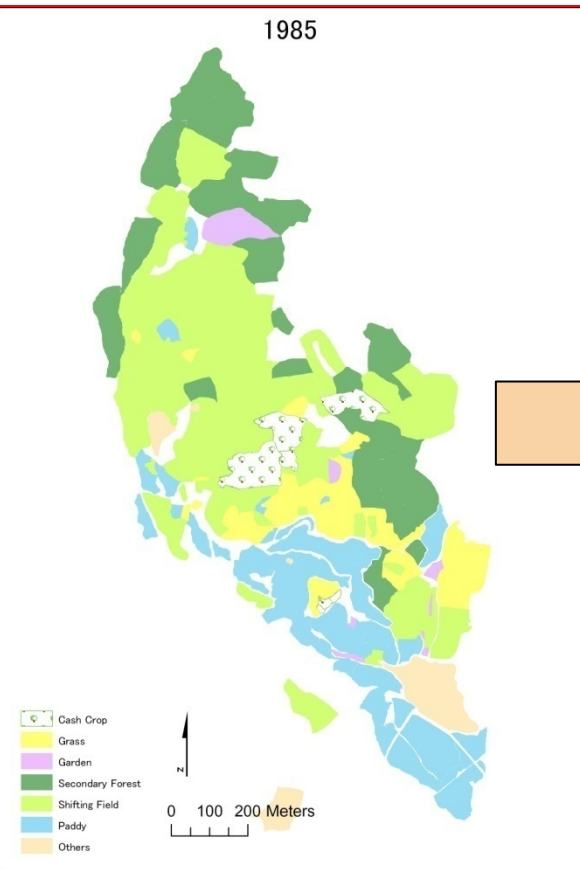
Reconstruction of
land use history
(1985-2004)



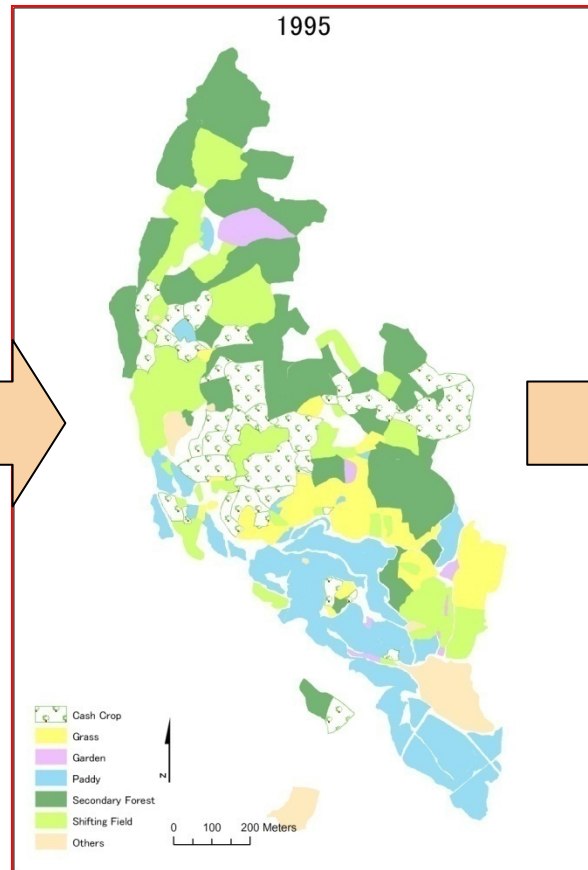
Land use map on GIS



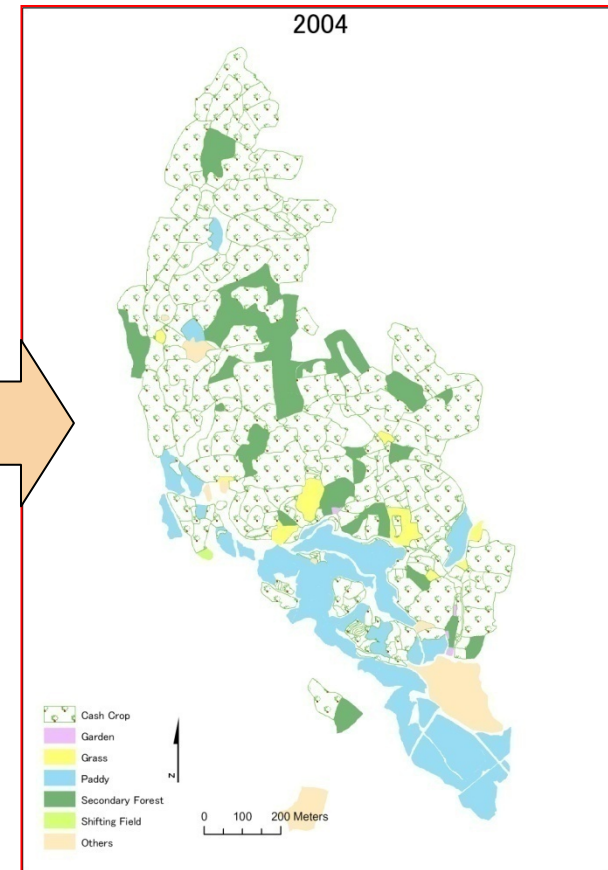
Introduction process of cash cropping (1985-2004)



1985 (1.0 ha)



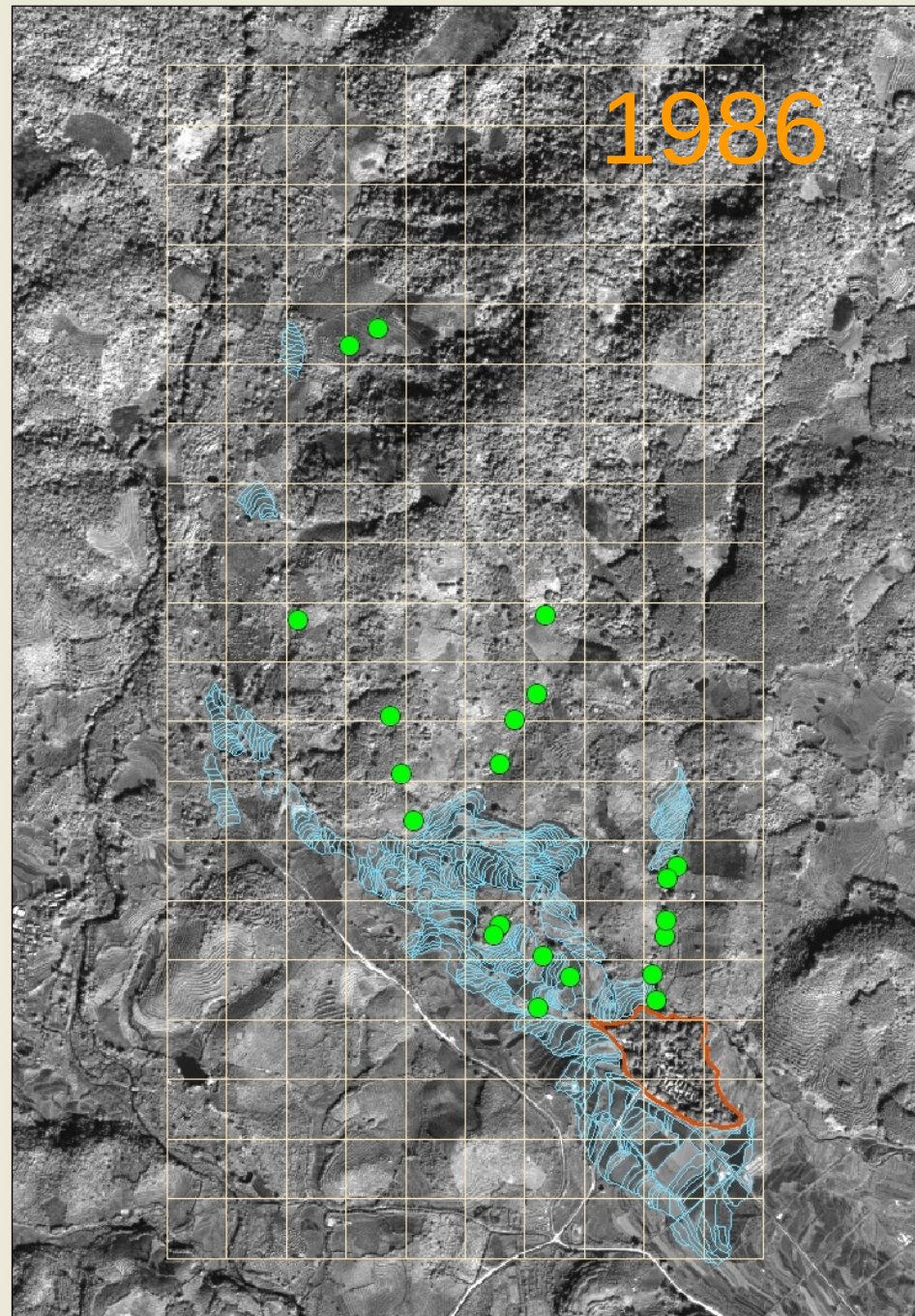
1995 (15.0 ha)



2004 (55.6 ha)

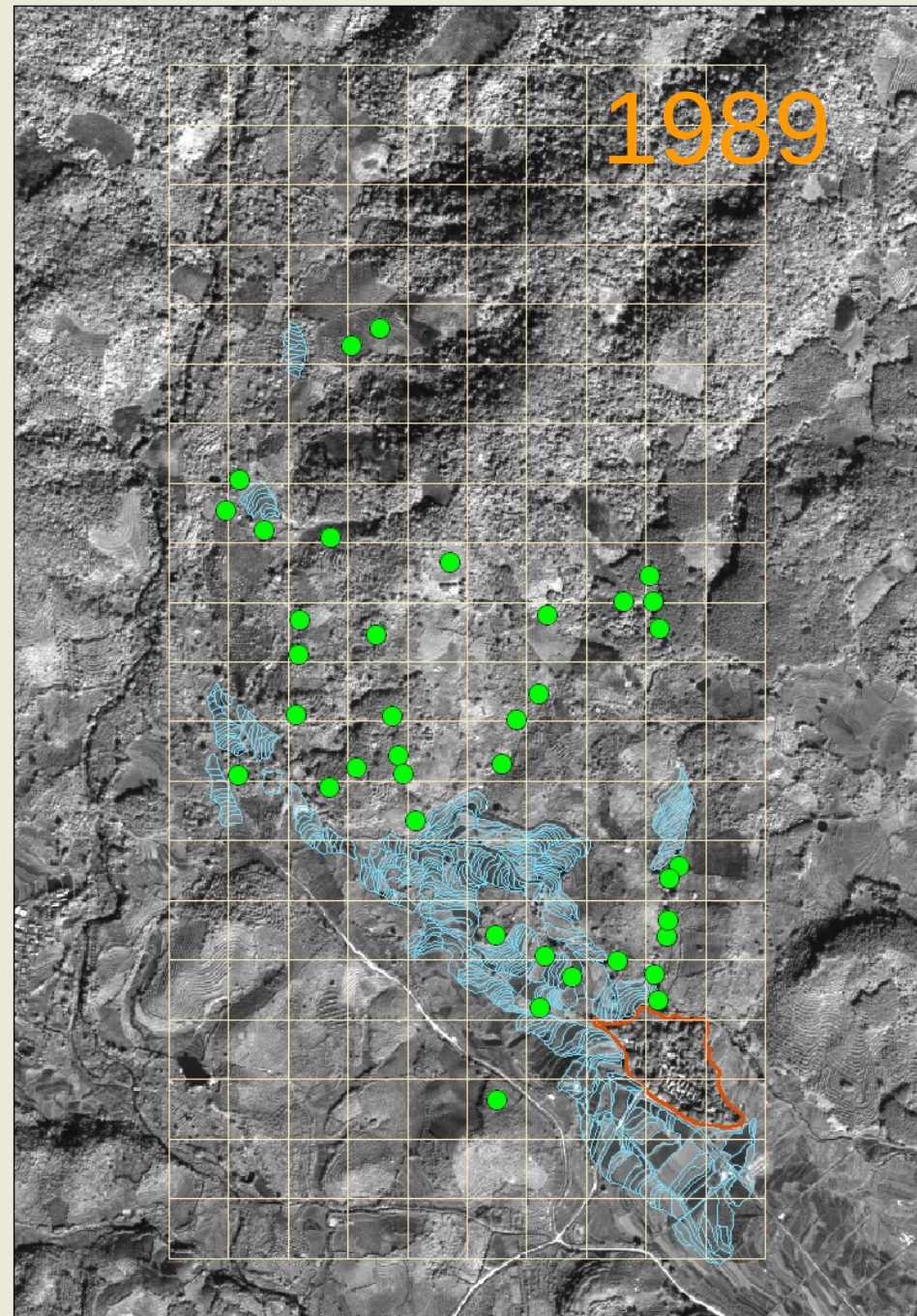
Paori Land Use Change: Cash Crop

Year	N	Mean (m)	SD
1986	21	408	349
1989	38	550	338
1992	56	582	305
1995	62	606	313
1998	81	597	319
2001	143	695	395
2004	182	702	401



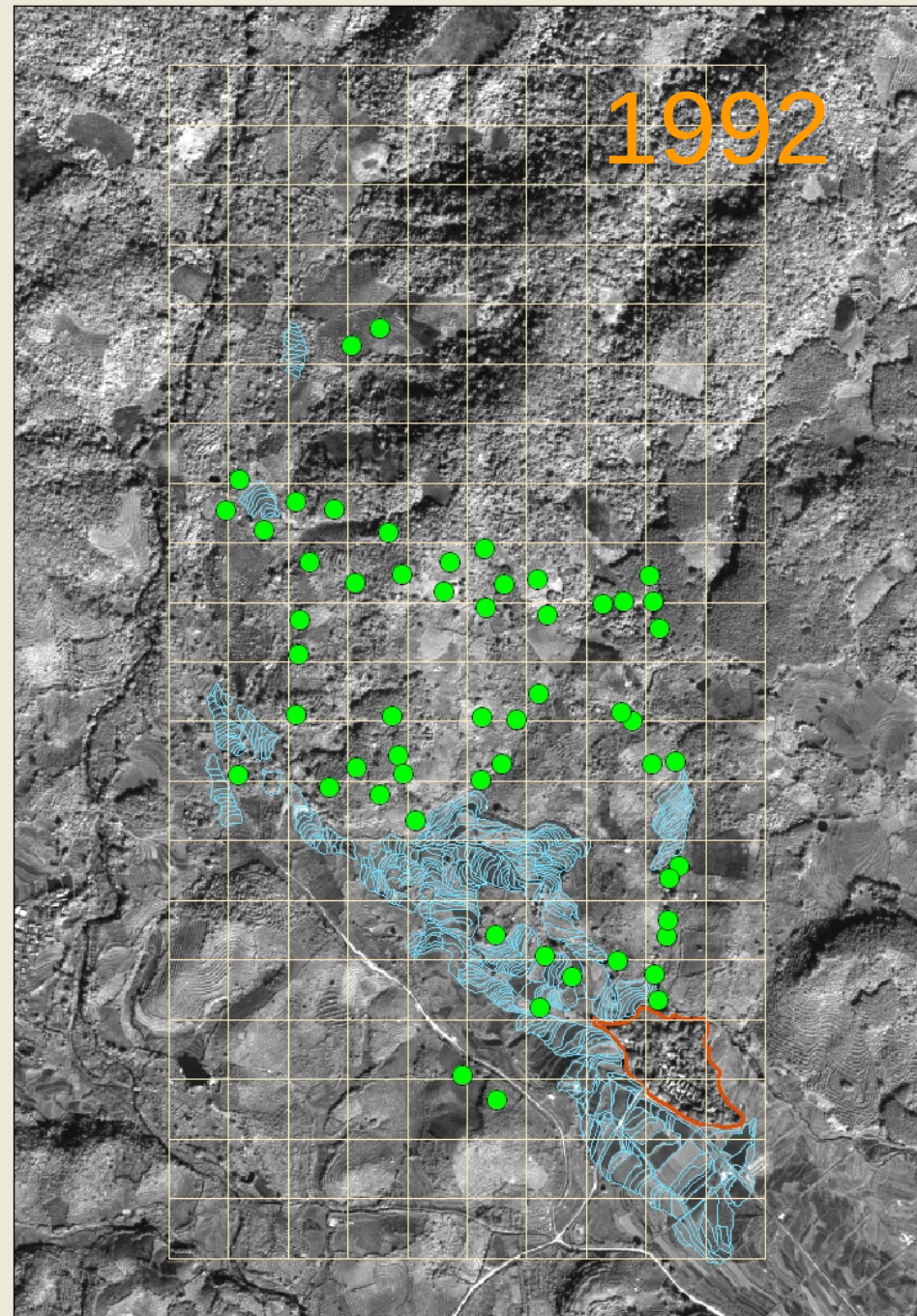
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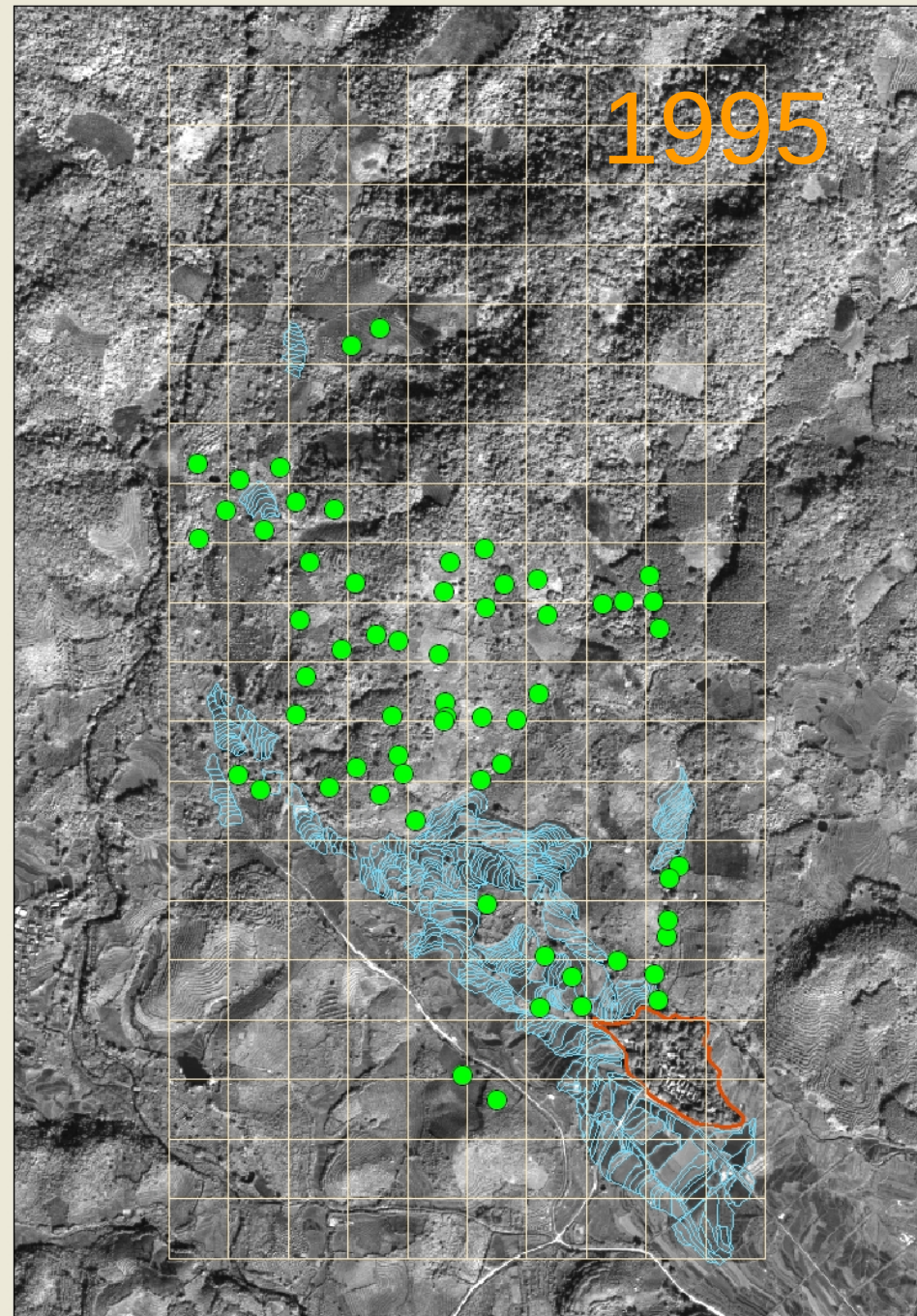
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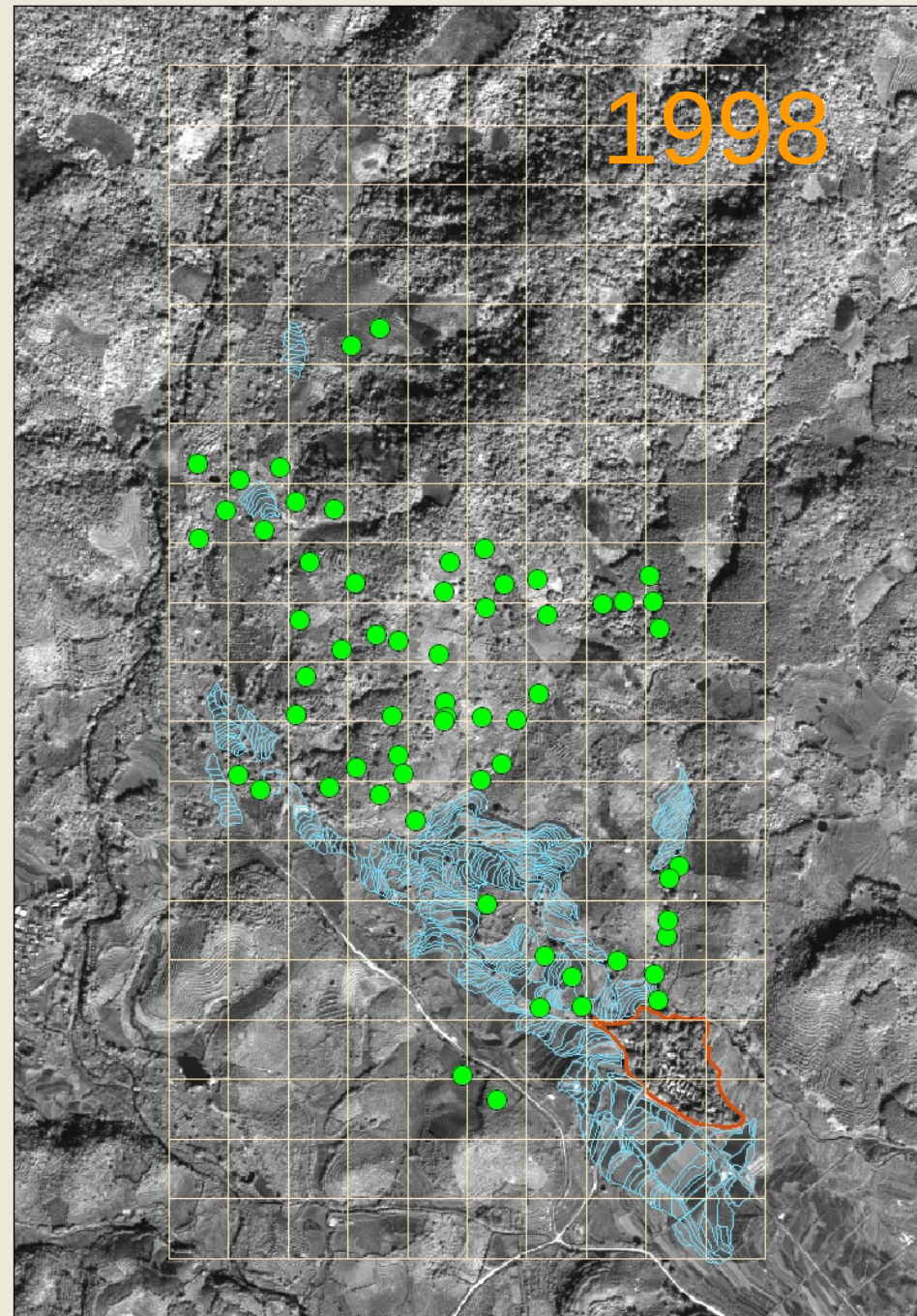
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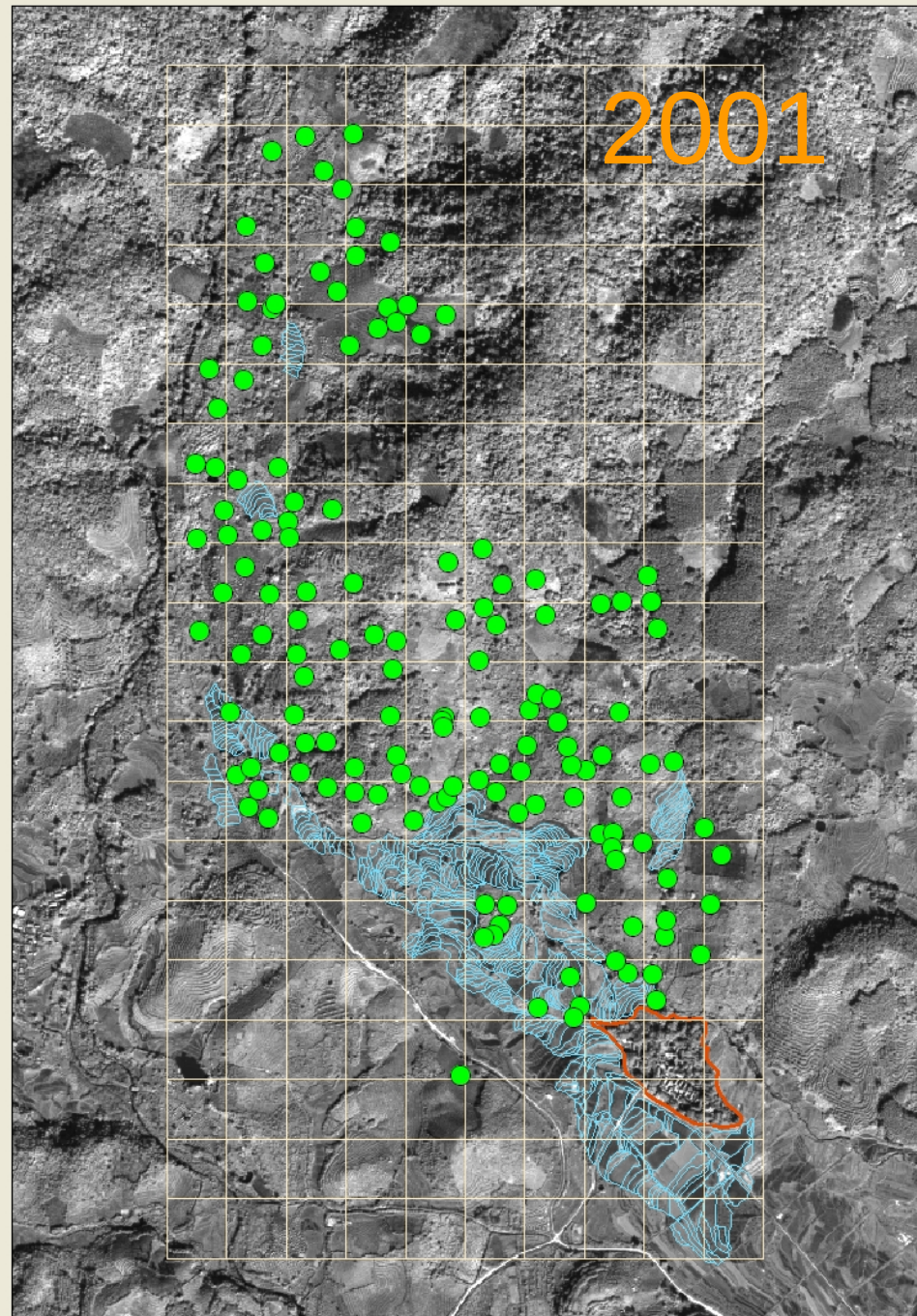
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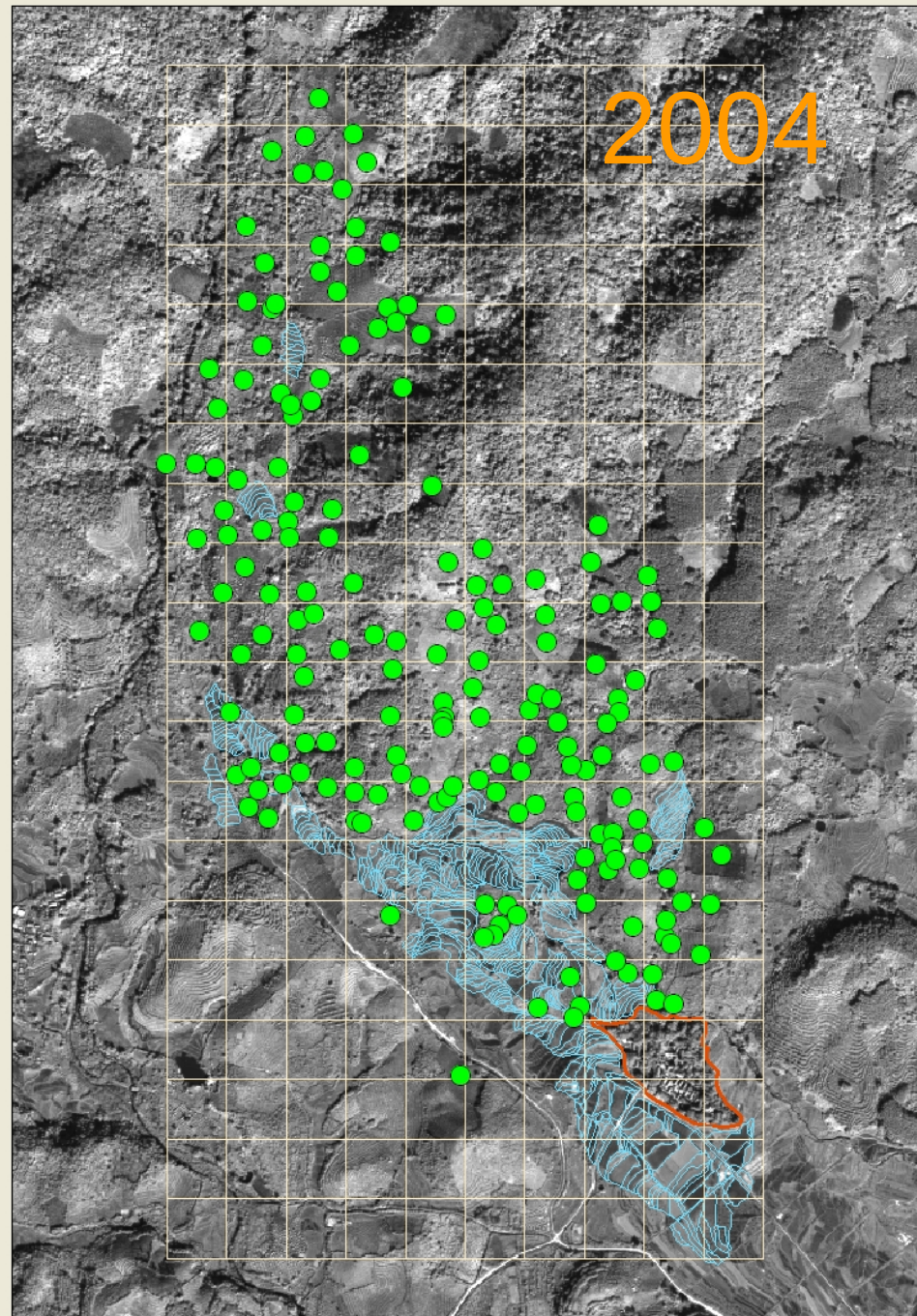
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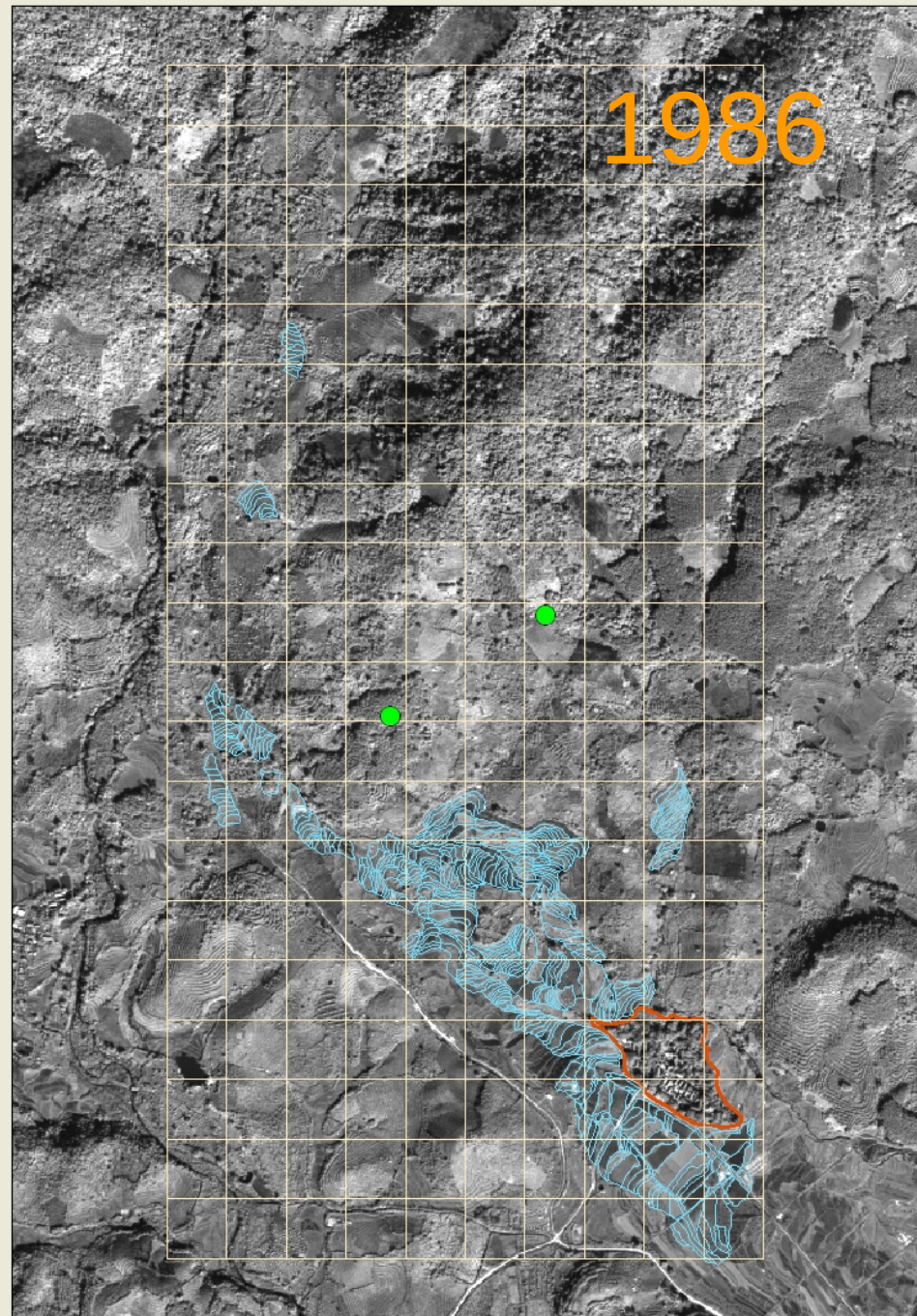
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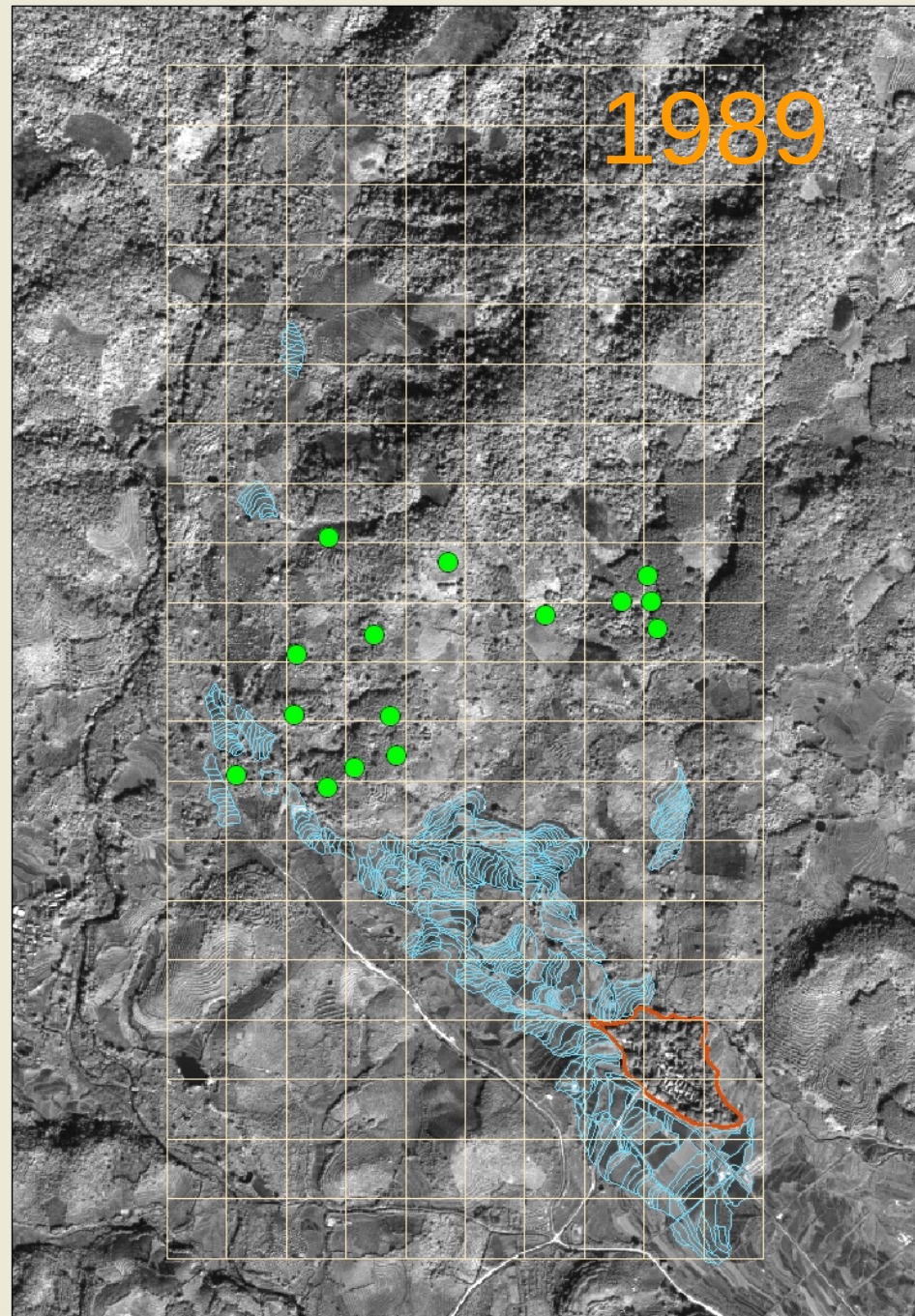
Land Use Change of Paori: Rubber

Year	N	Mean (m)	SD
1986	2	643	47
1989	15	693	97
1992	33	663	184
1995	35	696	188
1998	35	689	235
2001	59	729	281
2004	71	745	296



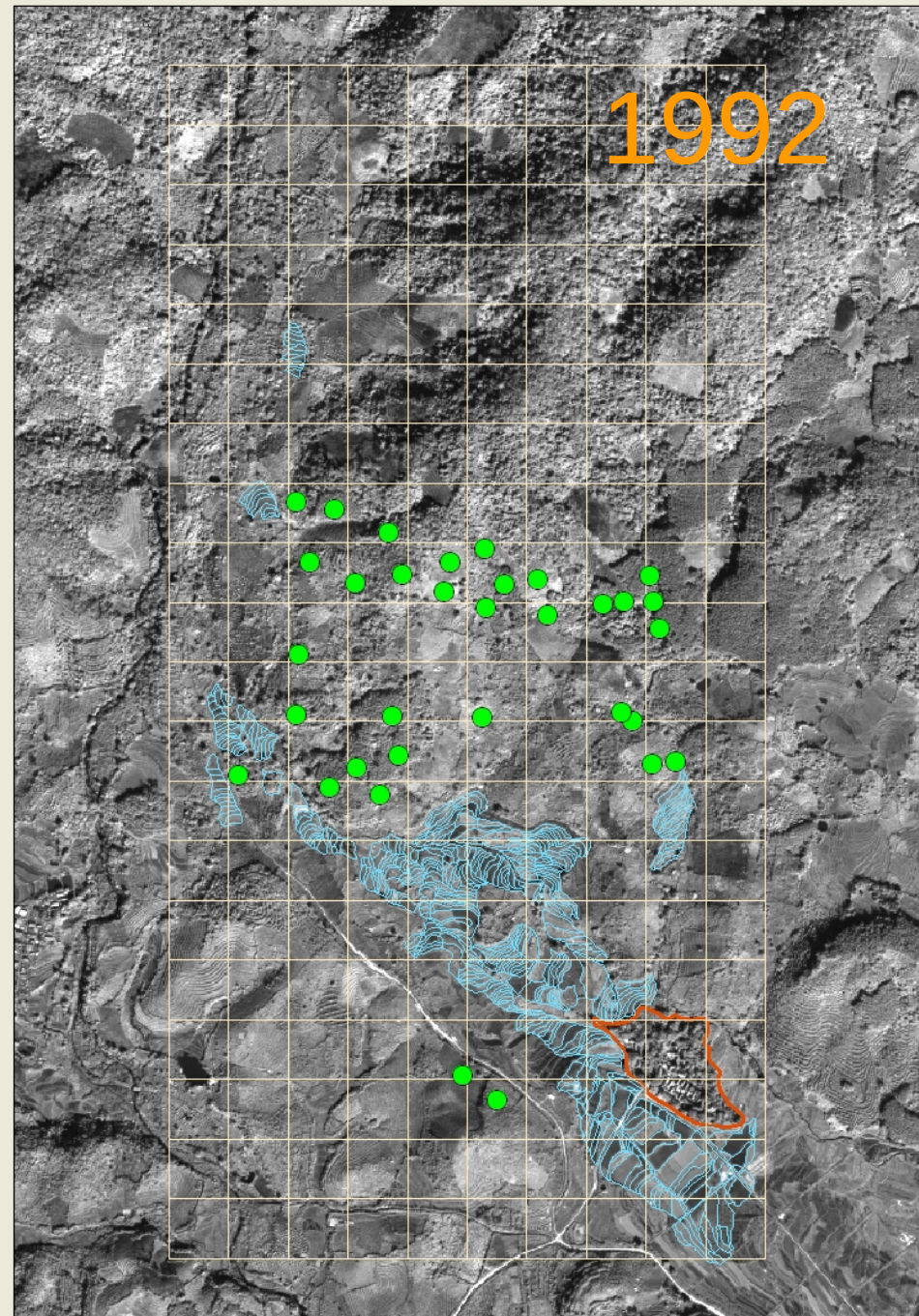
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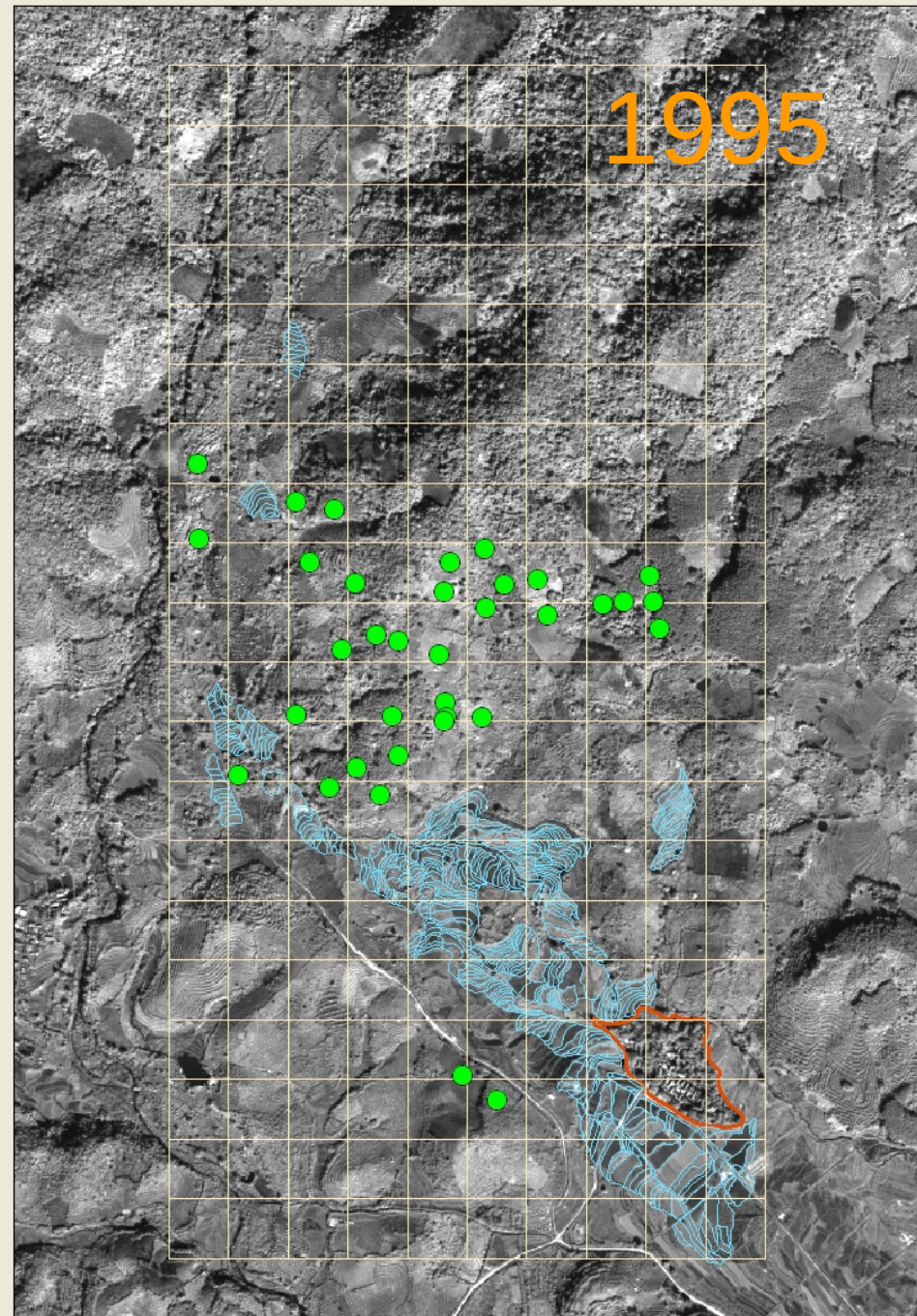
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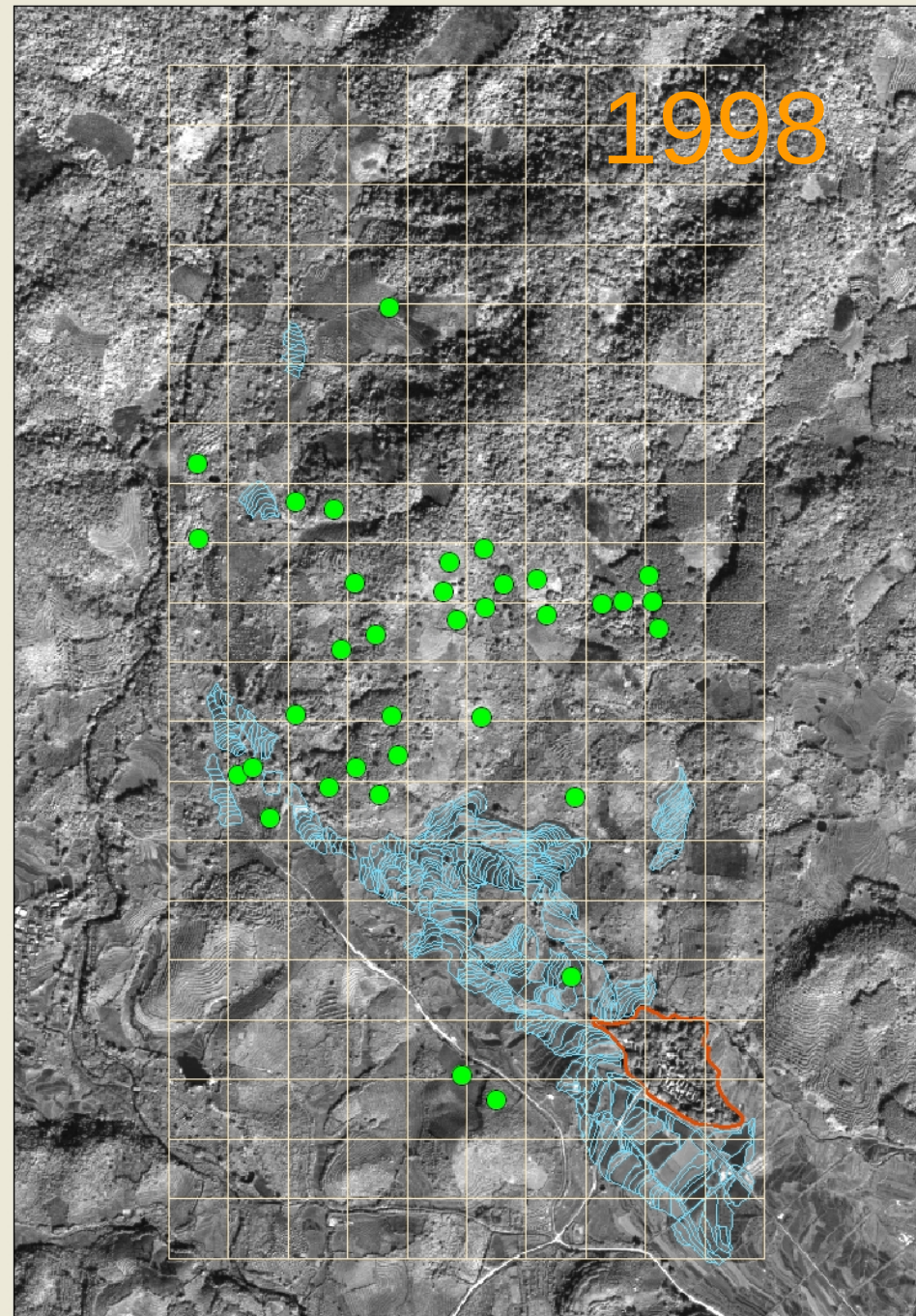
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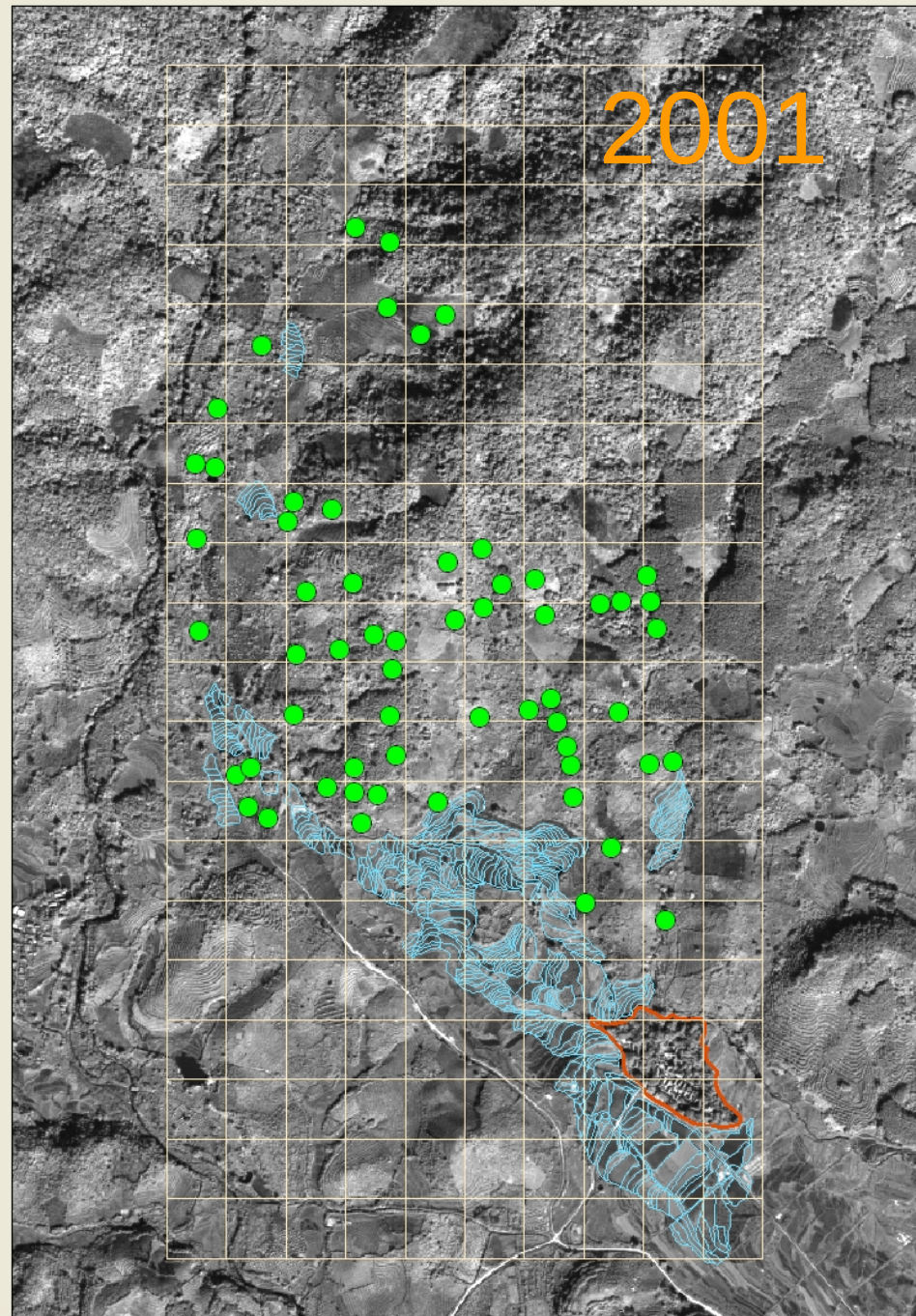
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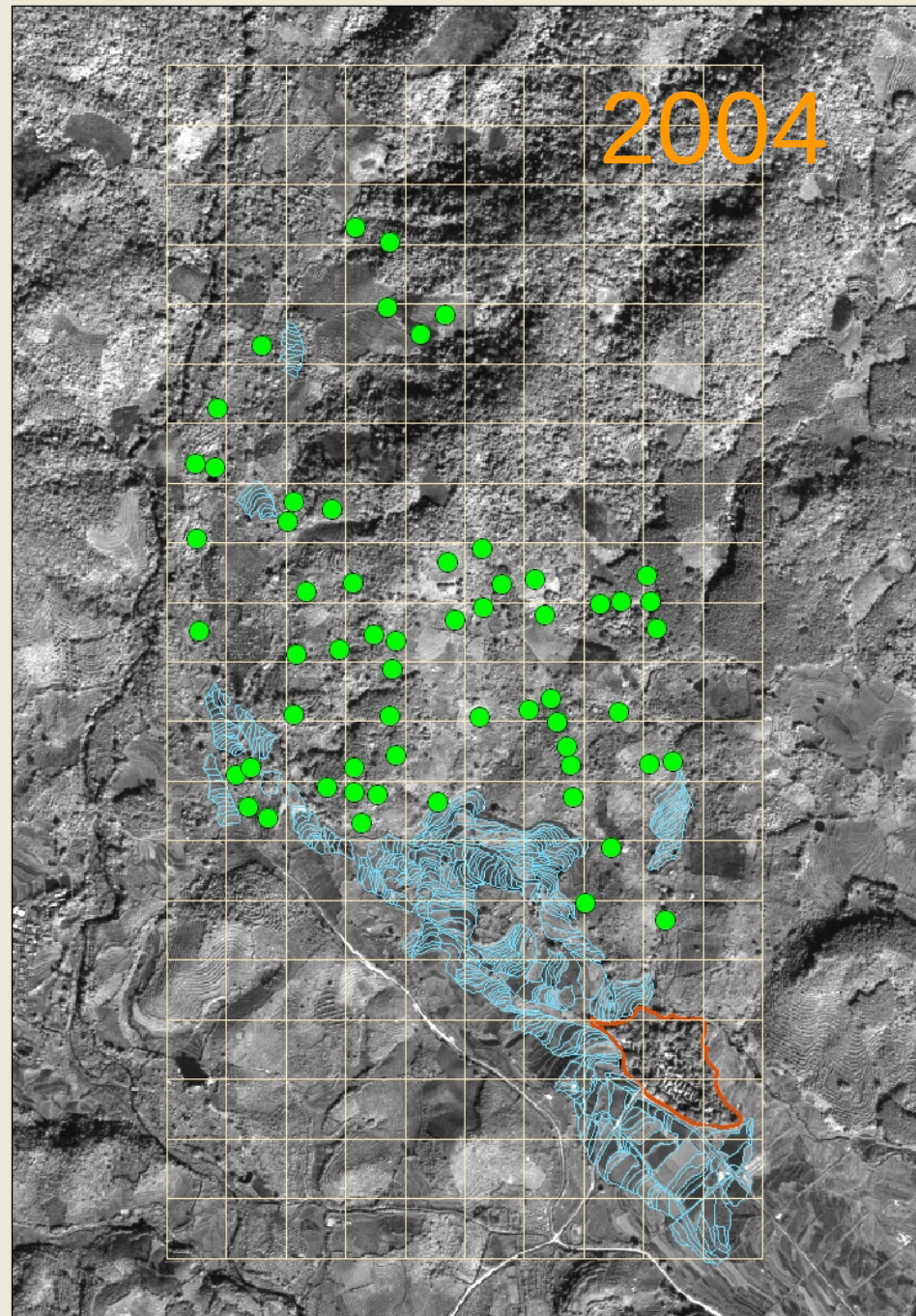
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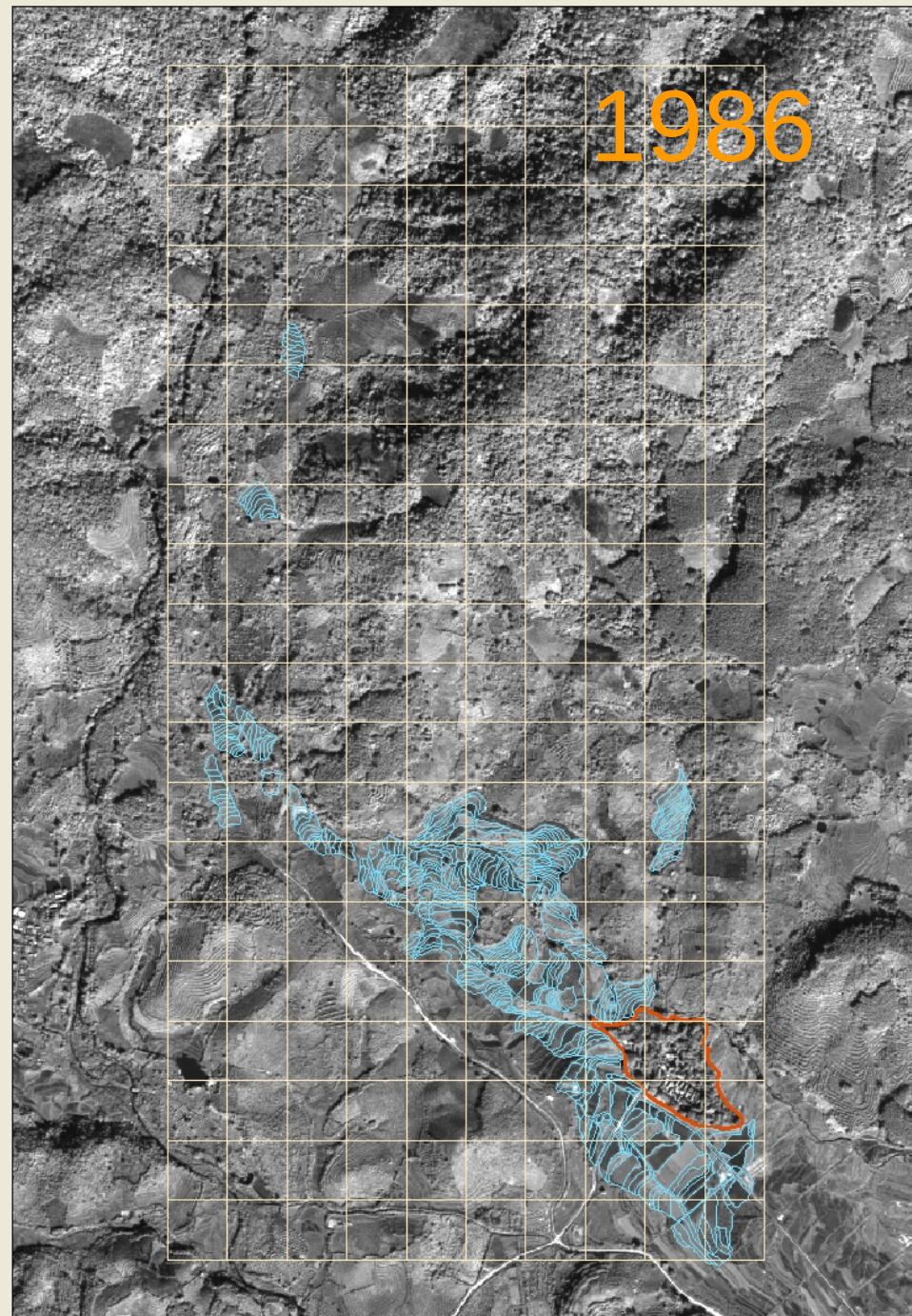
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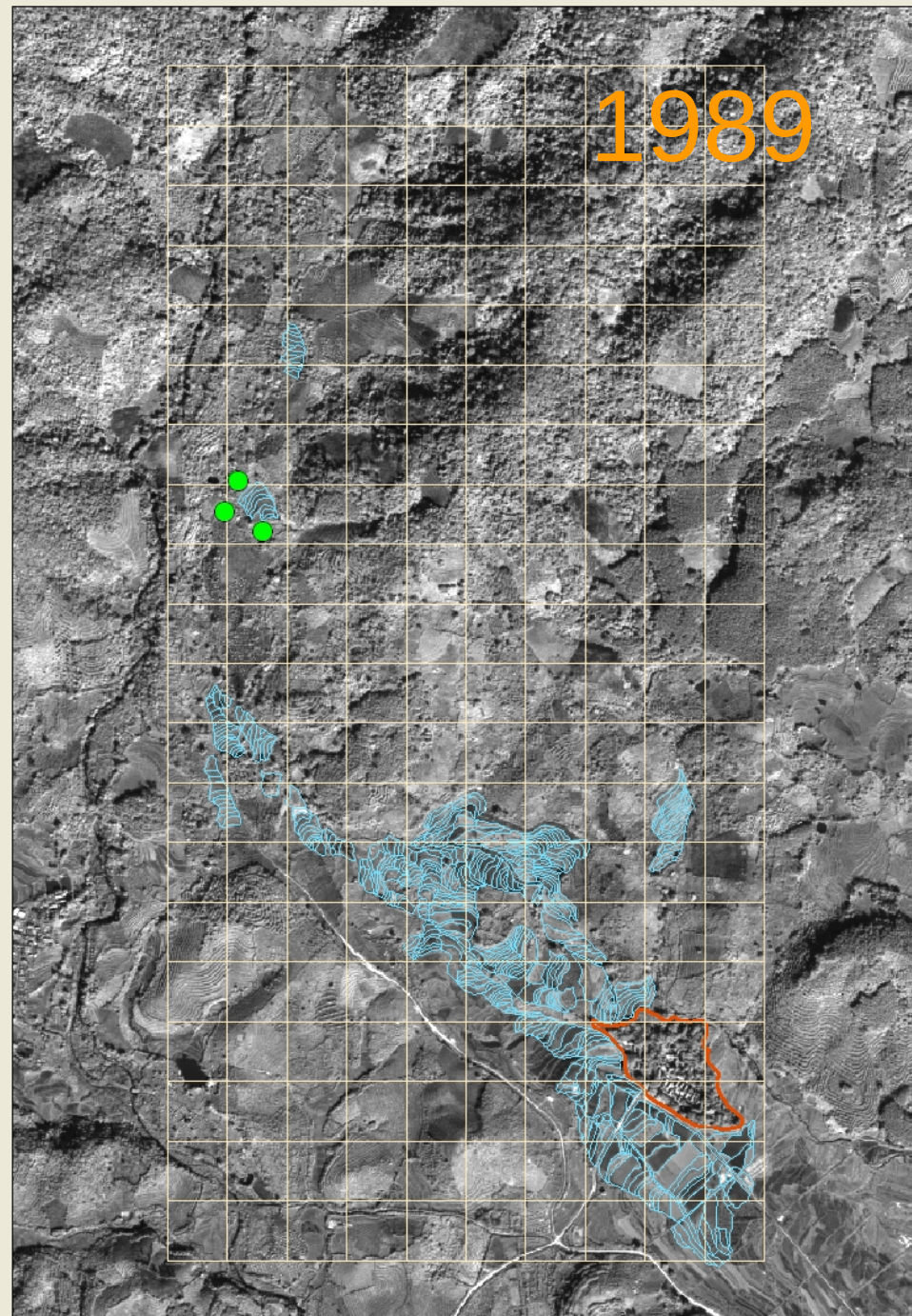
Land Use Change of Paori: Banana

Year	N	Mean (m)	SD
1986	0	0	0
1989	3	1040	47
1992	4	890	302
1995	6	895	254
1998	14	782	321
2001	27	773	408
2004	38	713	421



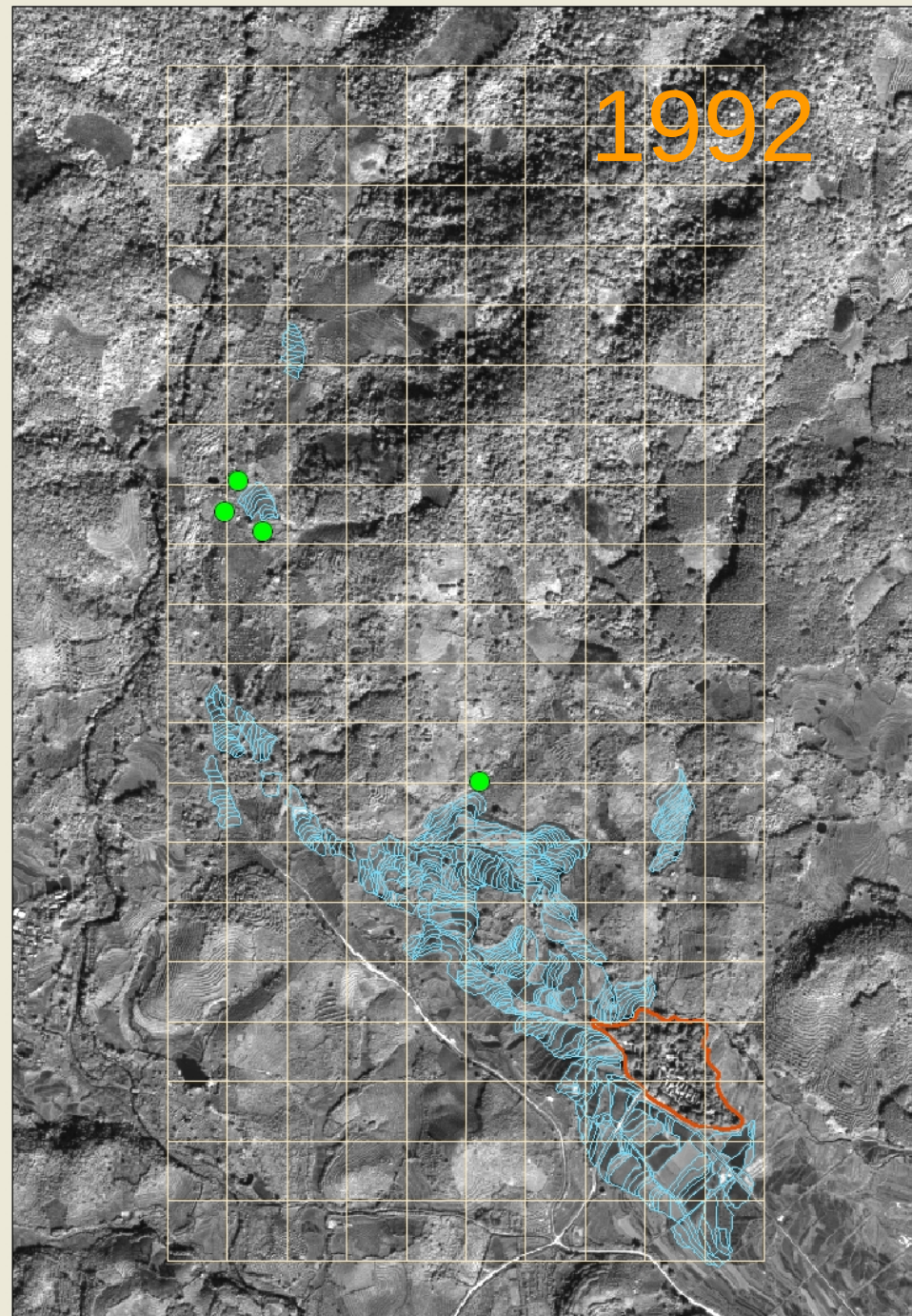
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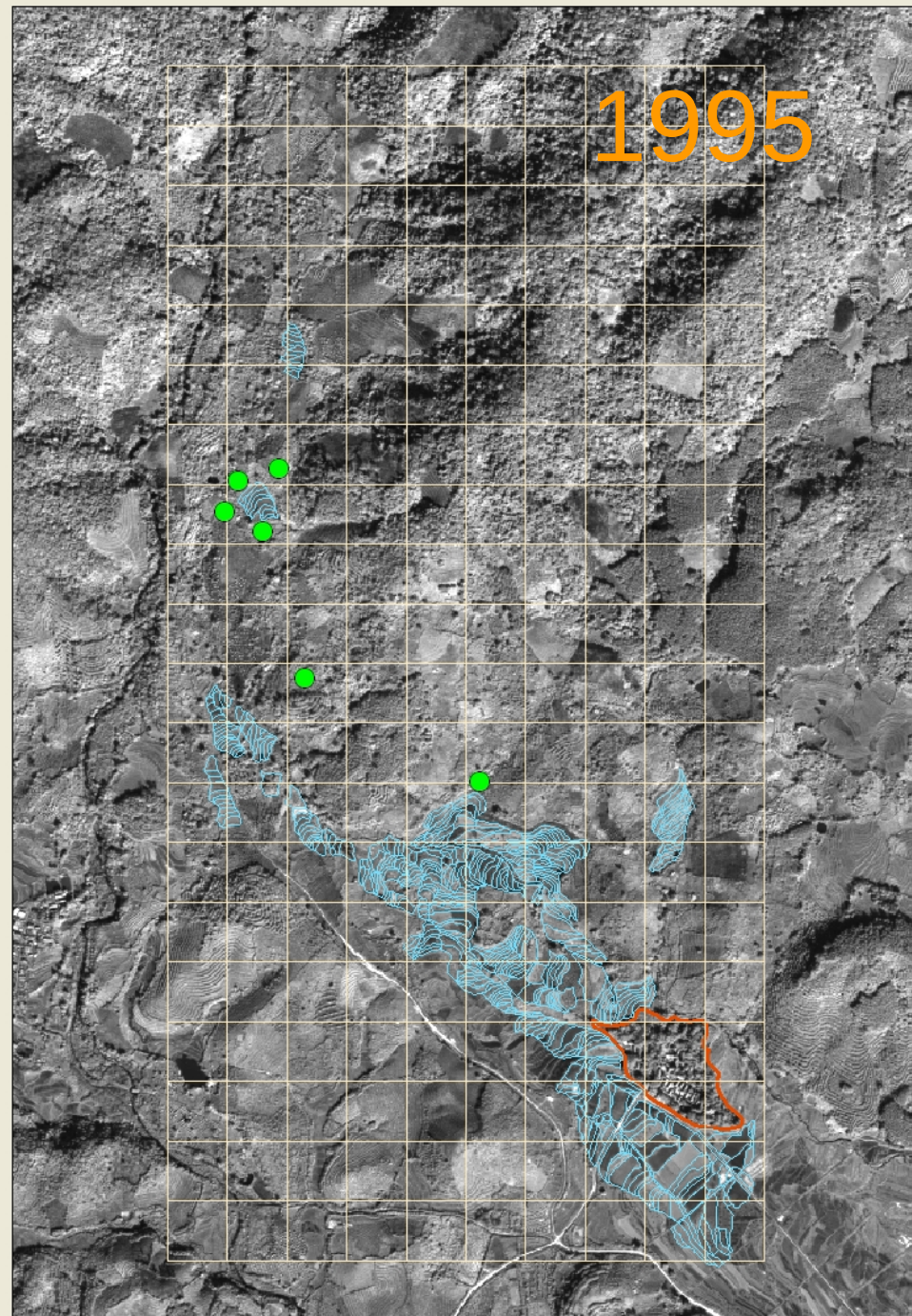
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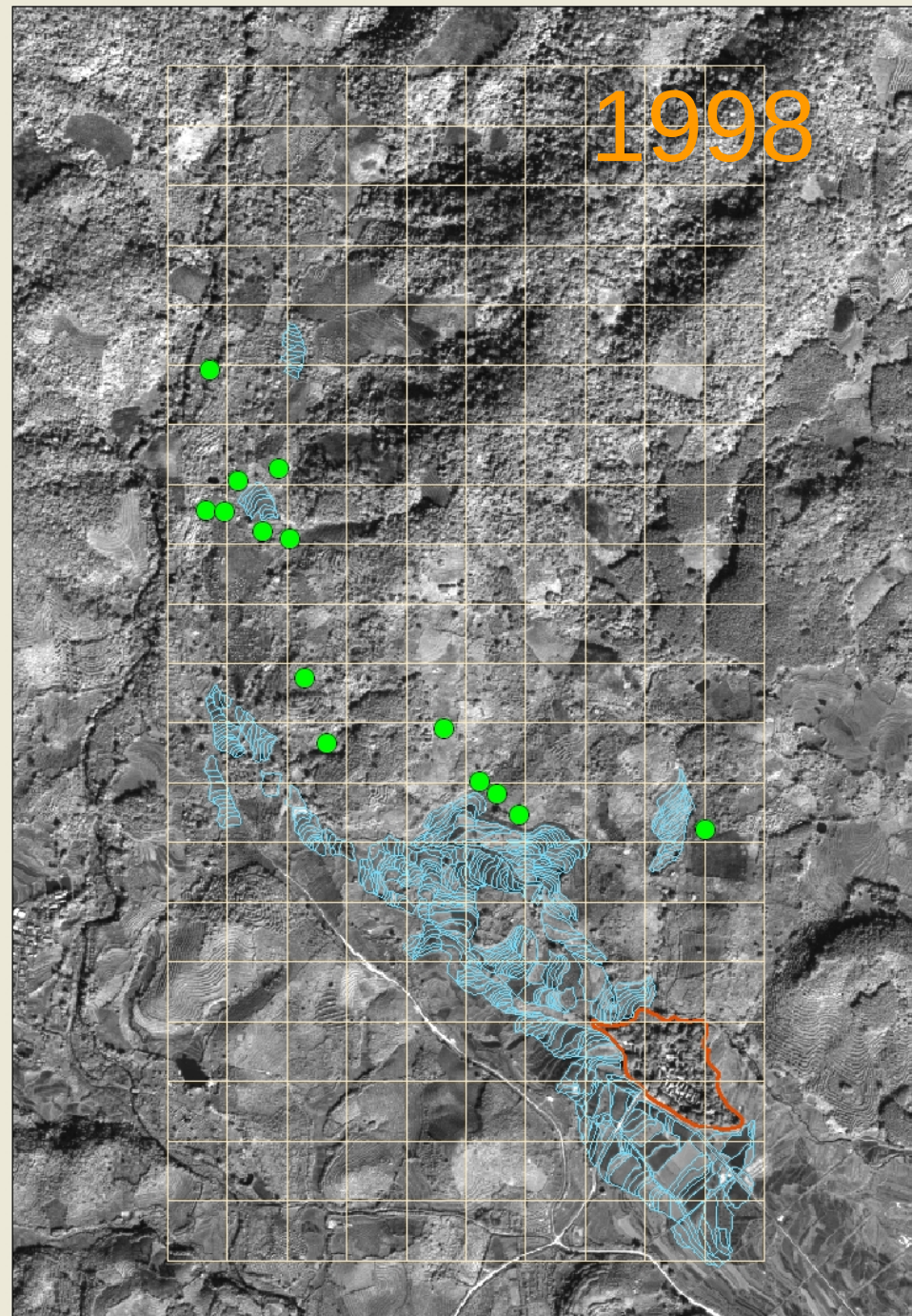
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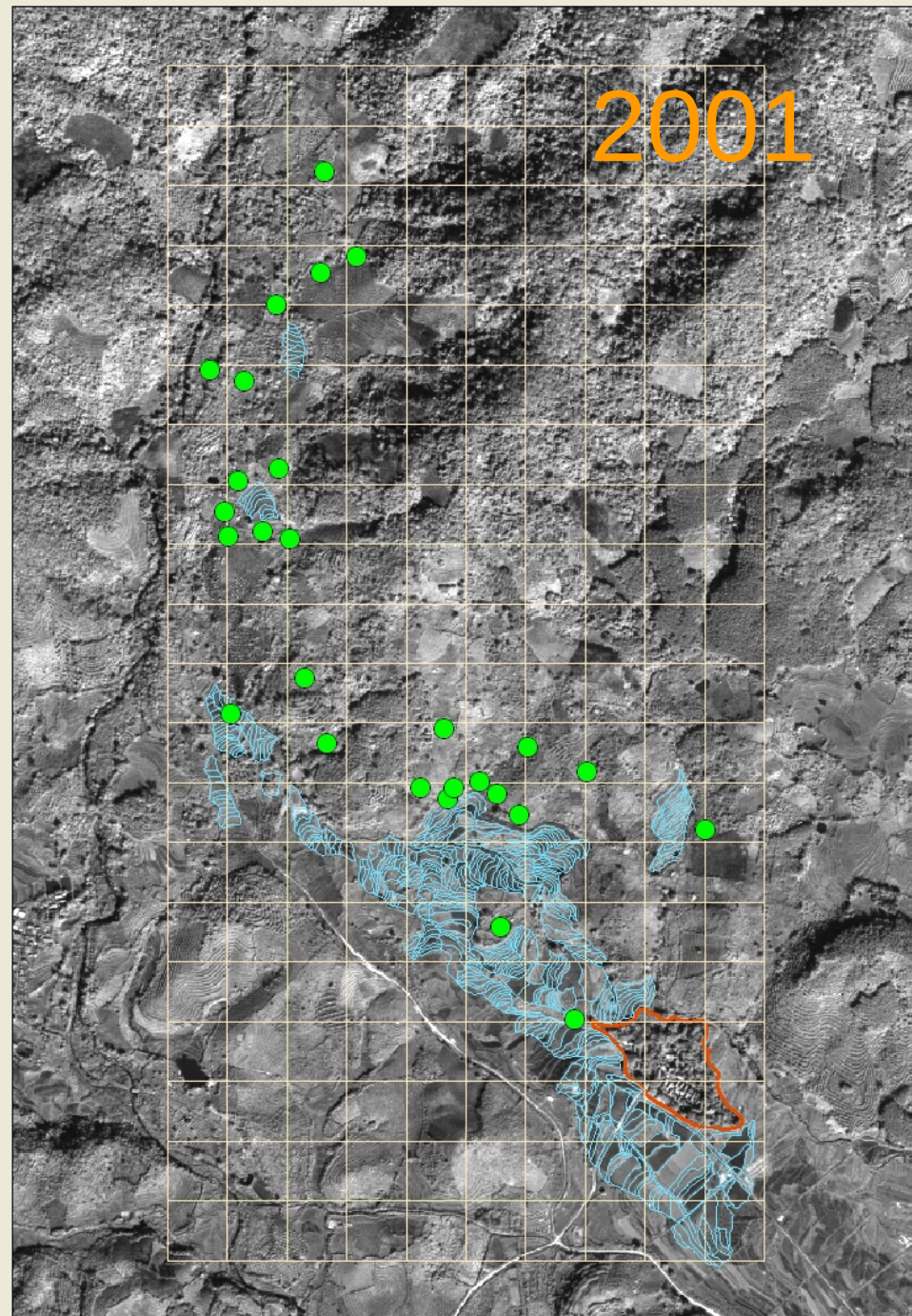
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