

土地被覆・利用とその変化の地理的普遍性と固有性

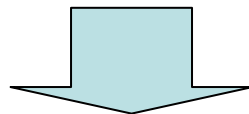
土地被覆・利用変化の2つのメカニズム

社会構造の変化

- 人口増加・移動、産業構造の変化、技術革新、土地所有制度など
例えば、林地→農地→都市的土地利用
- 変化は緩やかで、不可逆的
- 普遍性のある因果関係が支配的であり、地域間比較に基づいた変化の予測が有効

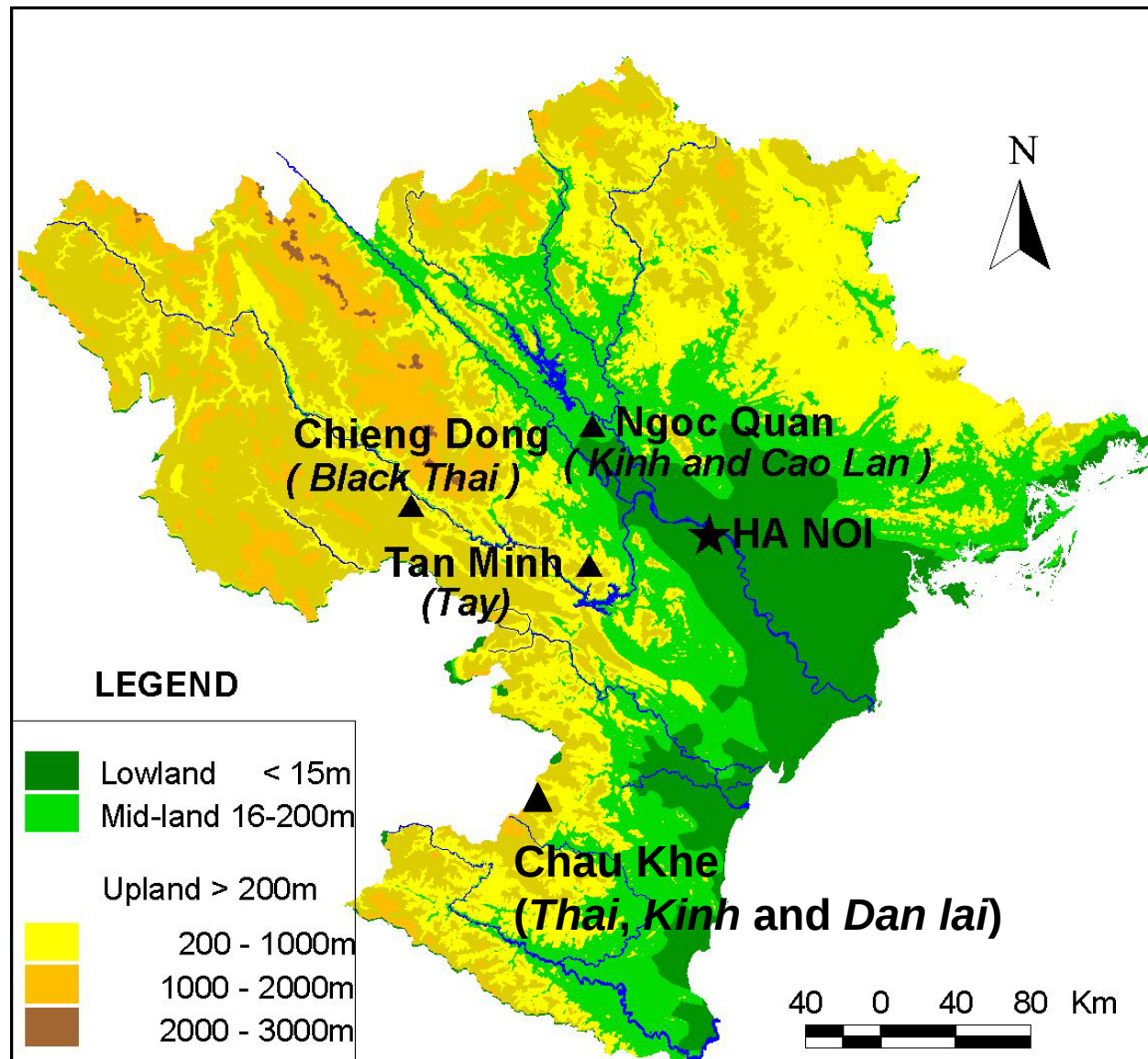
出来事

- 戦争・紛争・社会不安、大規模災害、政治経済システムの急激な変化など
- 変化は急激で、可逆的／不可逆的
- 固有性の強い因果関係が支配的であり、変化の予測は困難

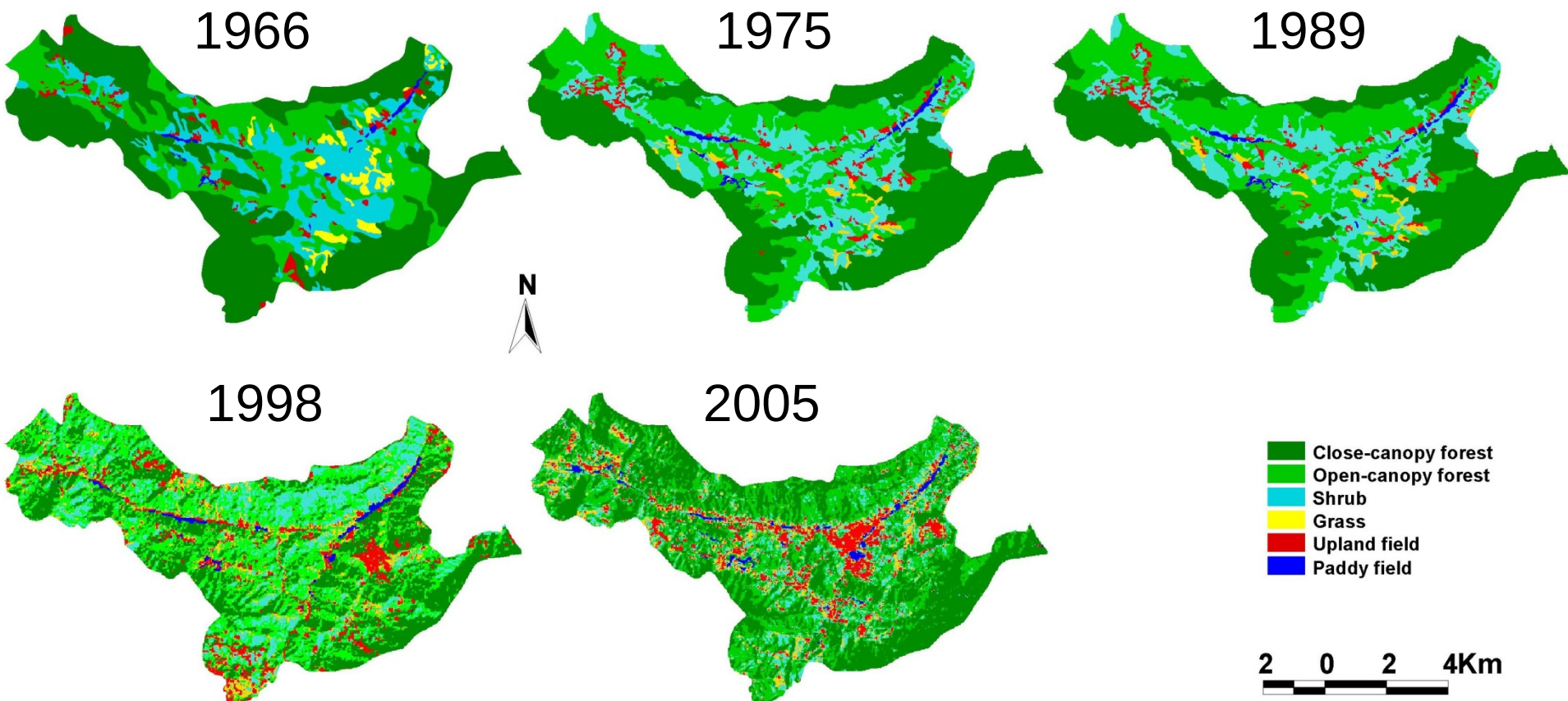


実際の土地被覆・利用変化は2つのメカニズムの合成結果

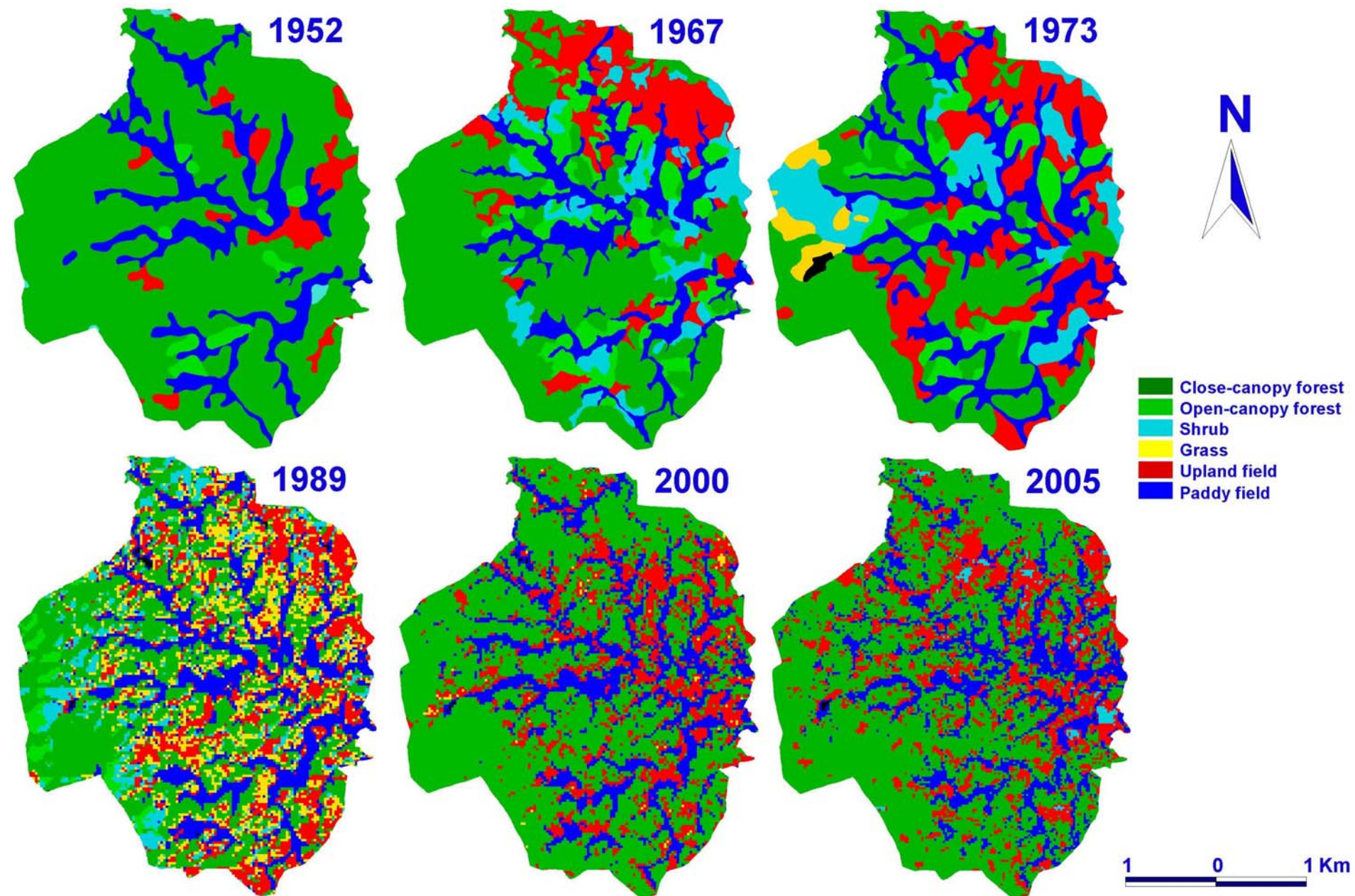
Study Site Locations in Vietnam's Northern Mountain Region



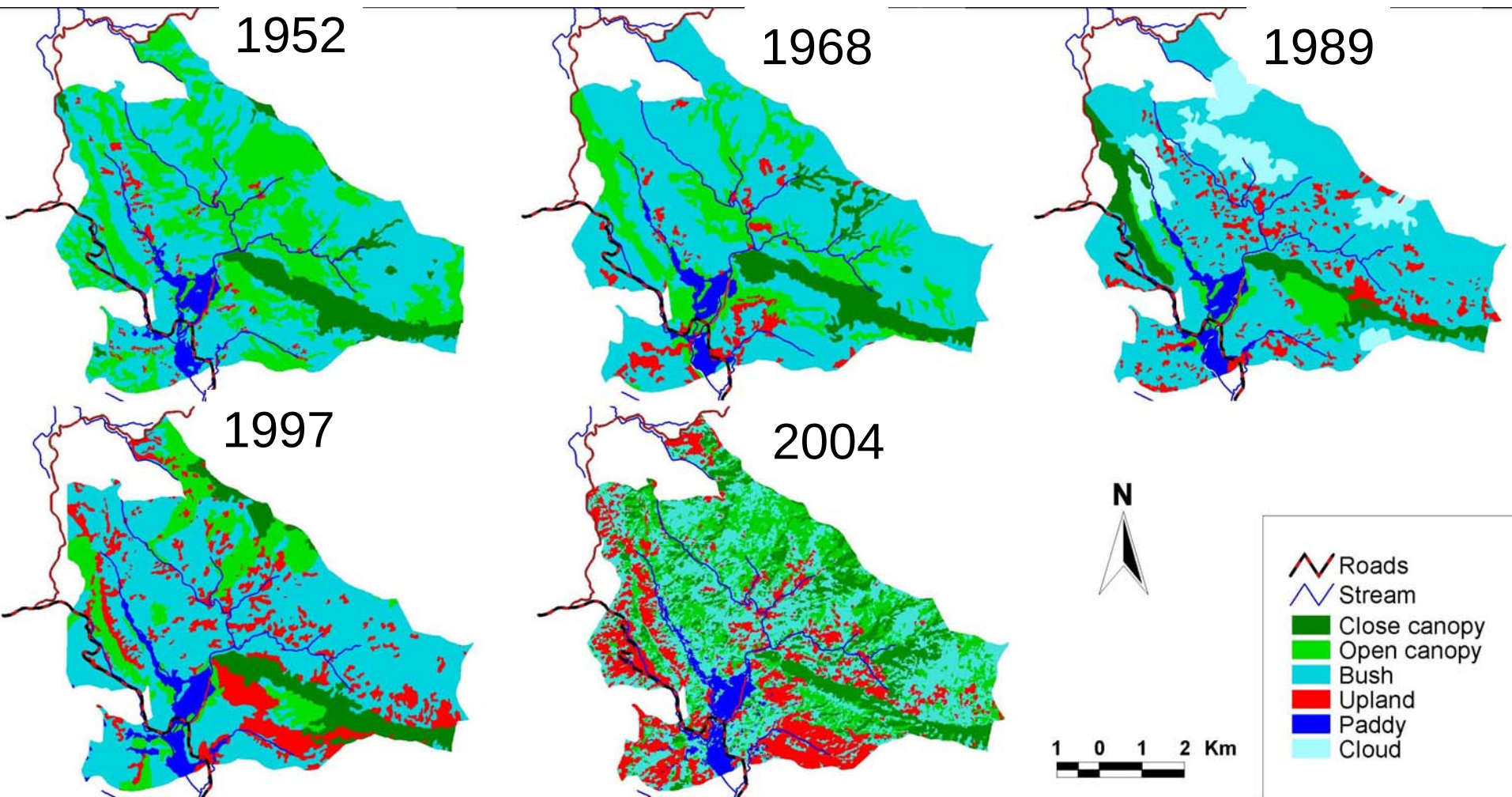
Tan Minh village



Ngoc Quan village

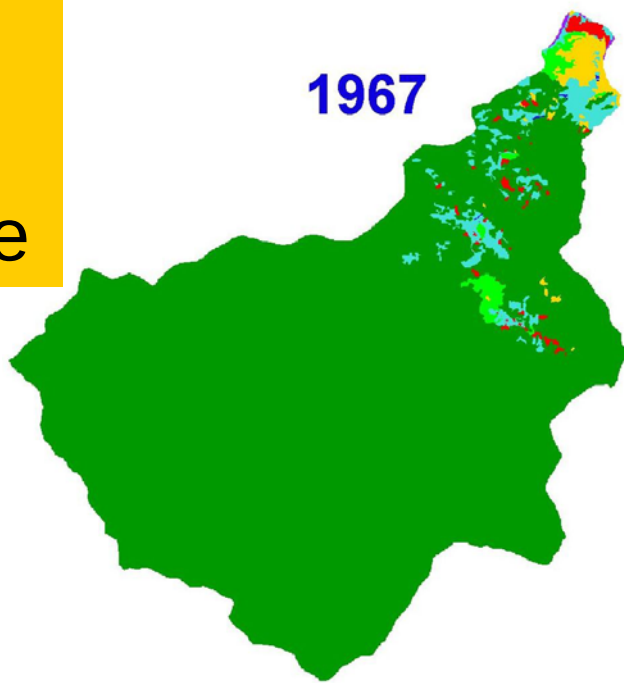


Chieng Dong village

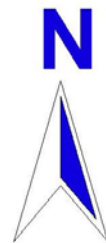
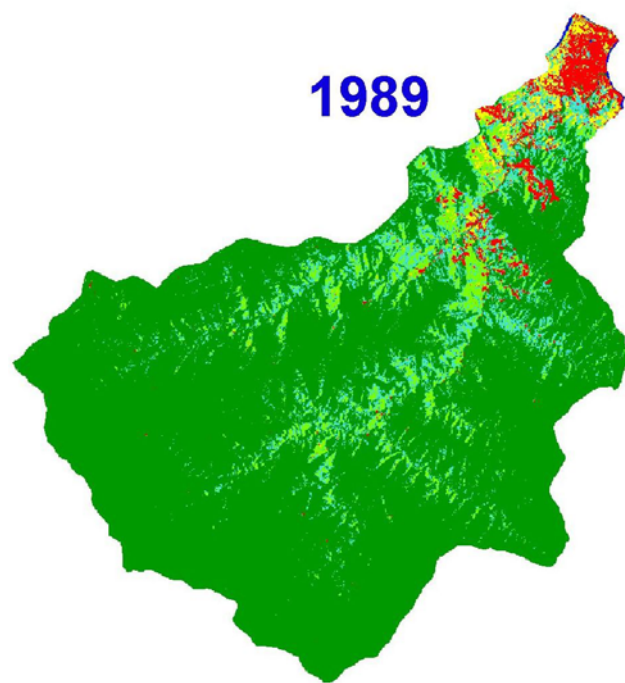


**Chau
Khe
village**

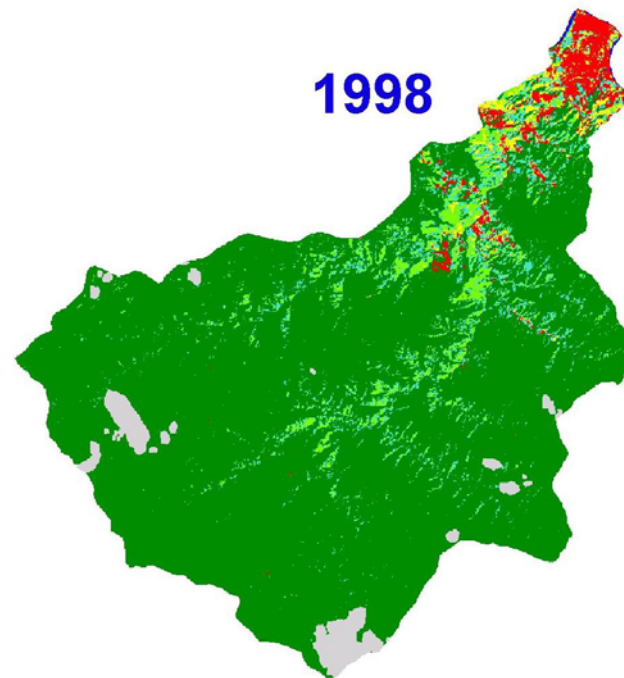
1967



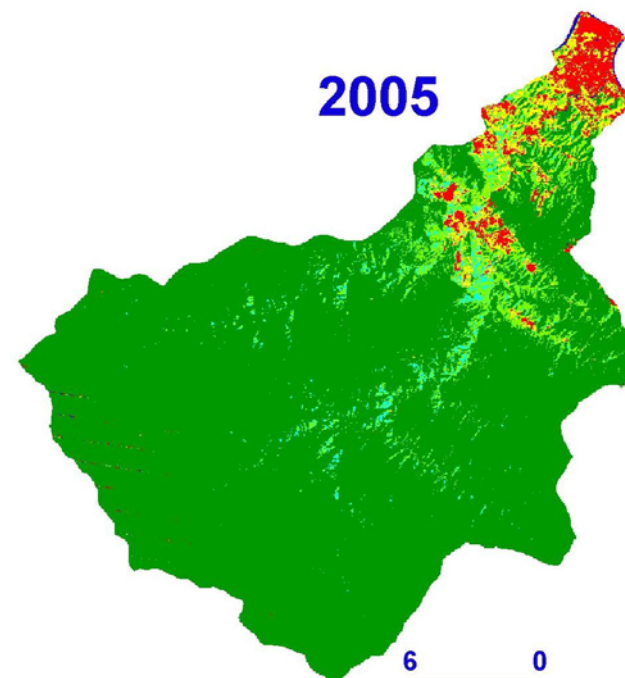
1989



1998



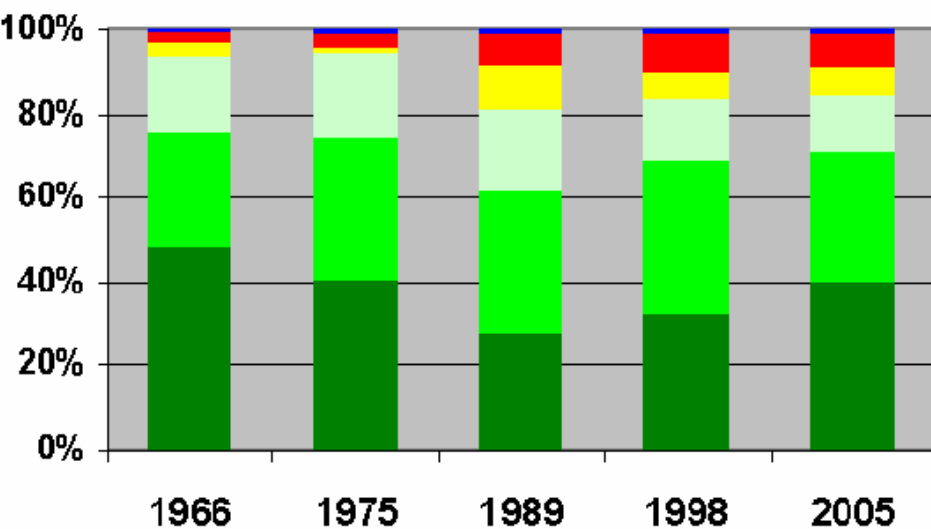
2005



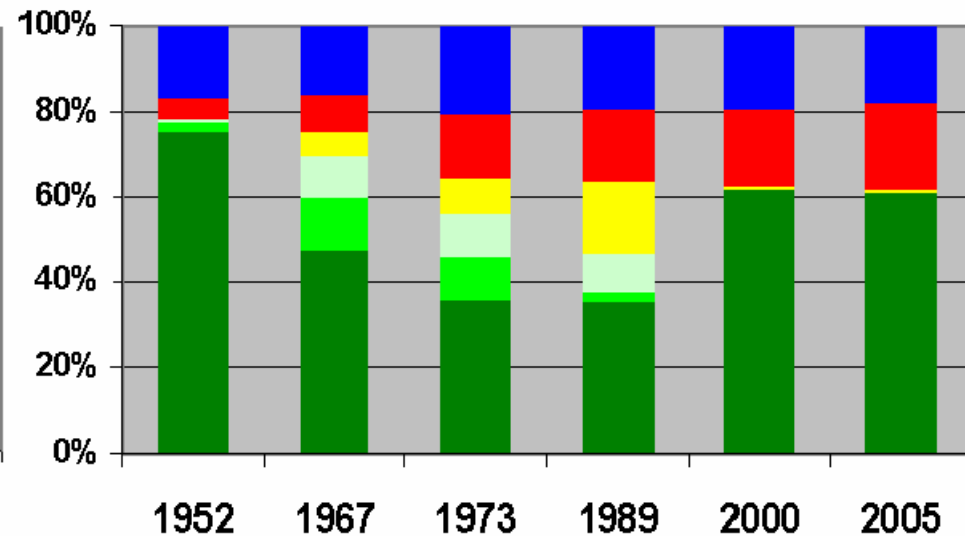
- Close
- Open
- Bush
- Grass
- Upland
- Paddy

6 0 6 12 Kilometers

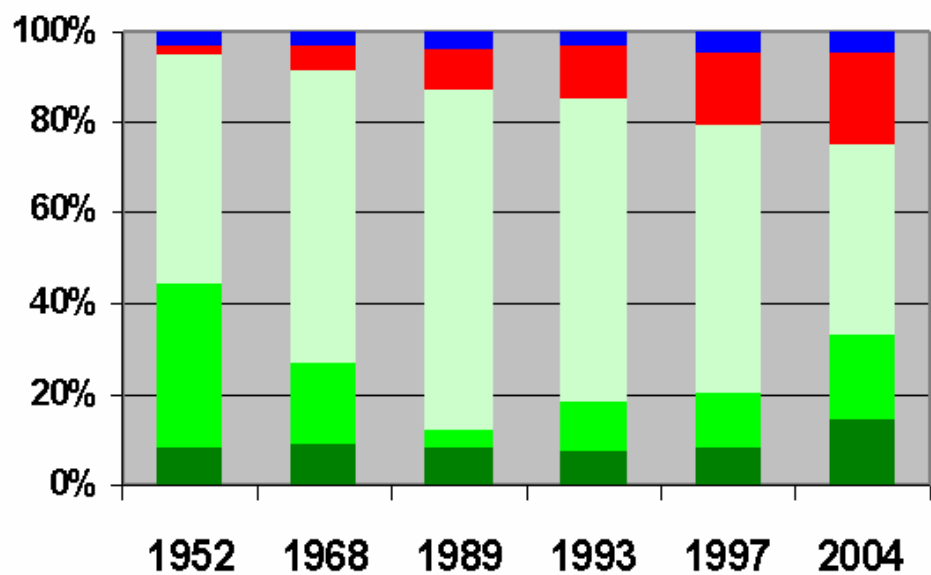
Tan Minh village



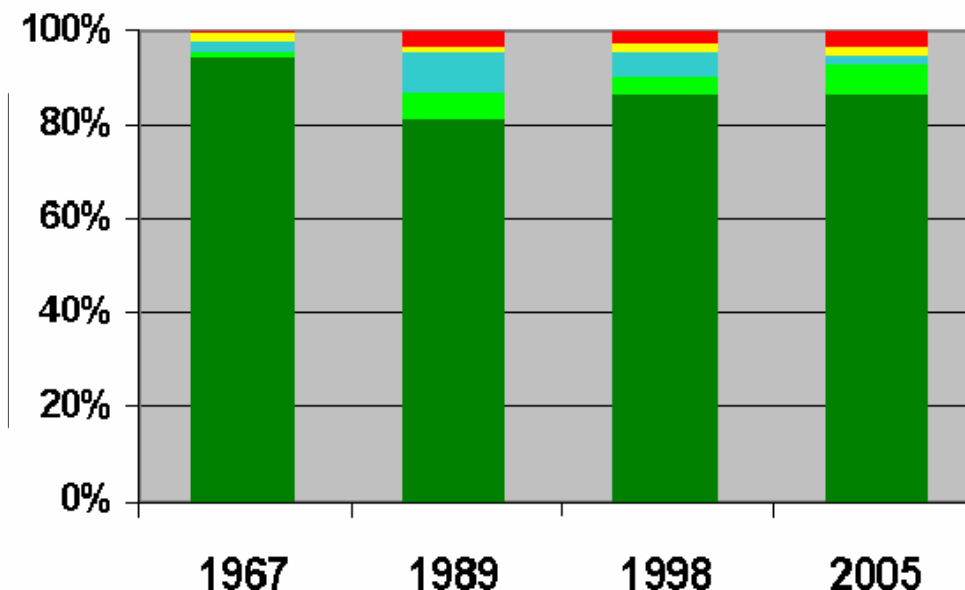
Ngoc Quan village



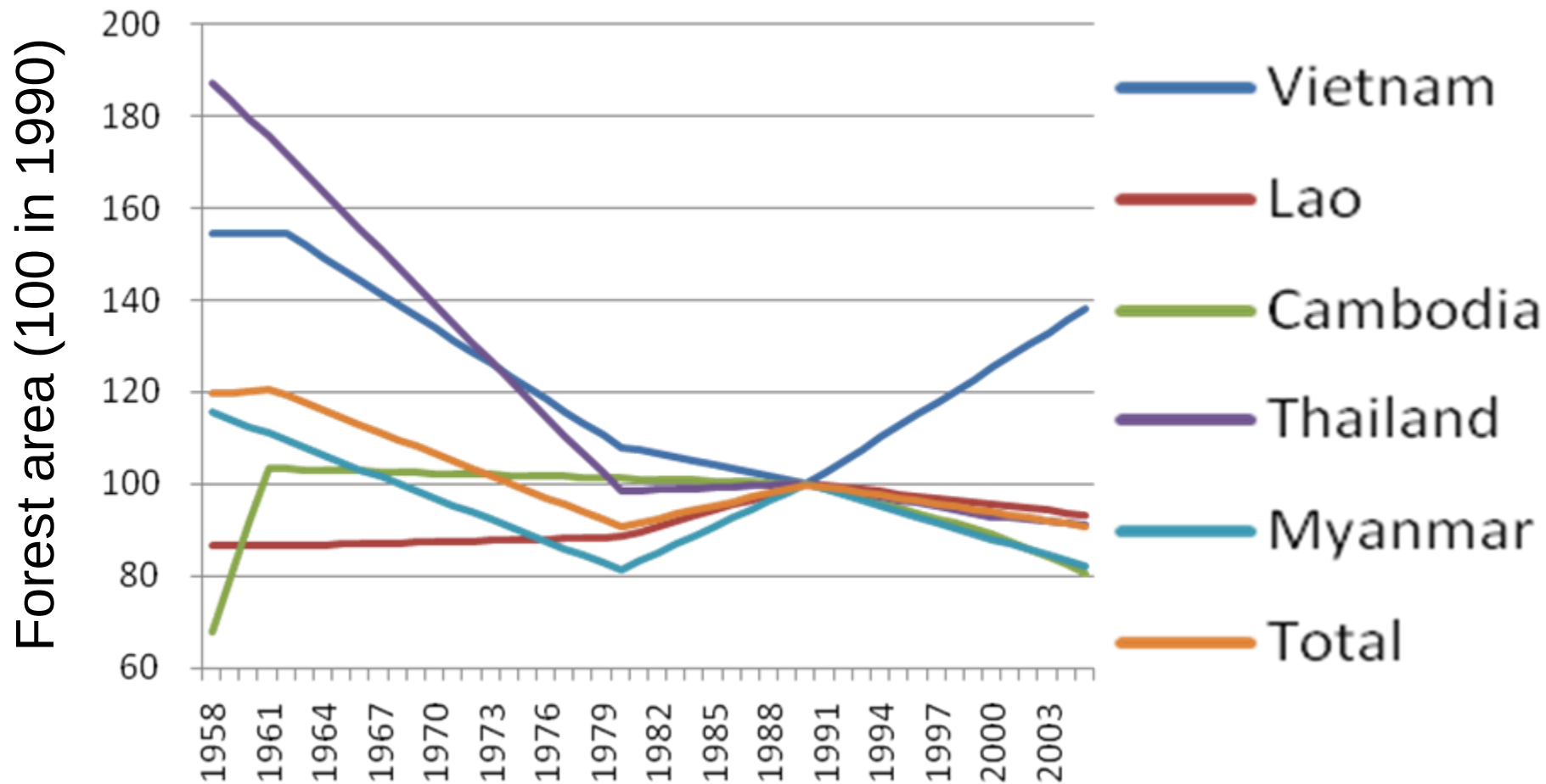
Chieng Dong village



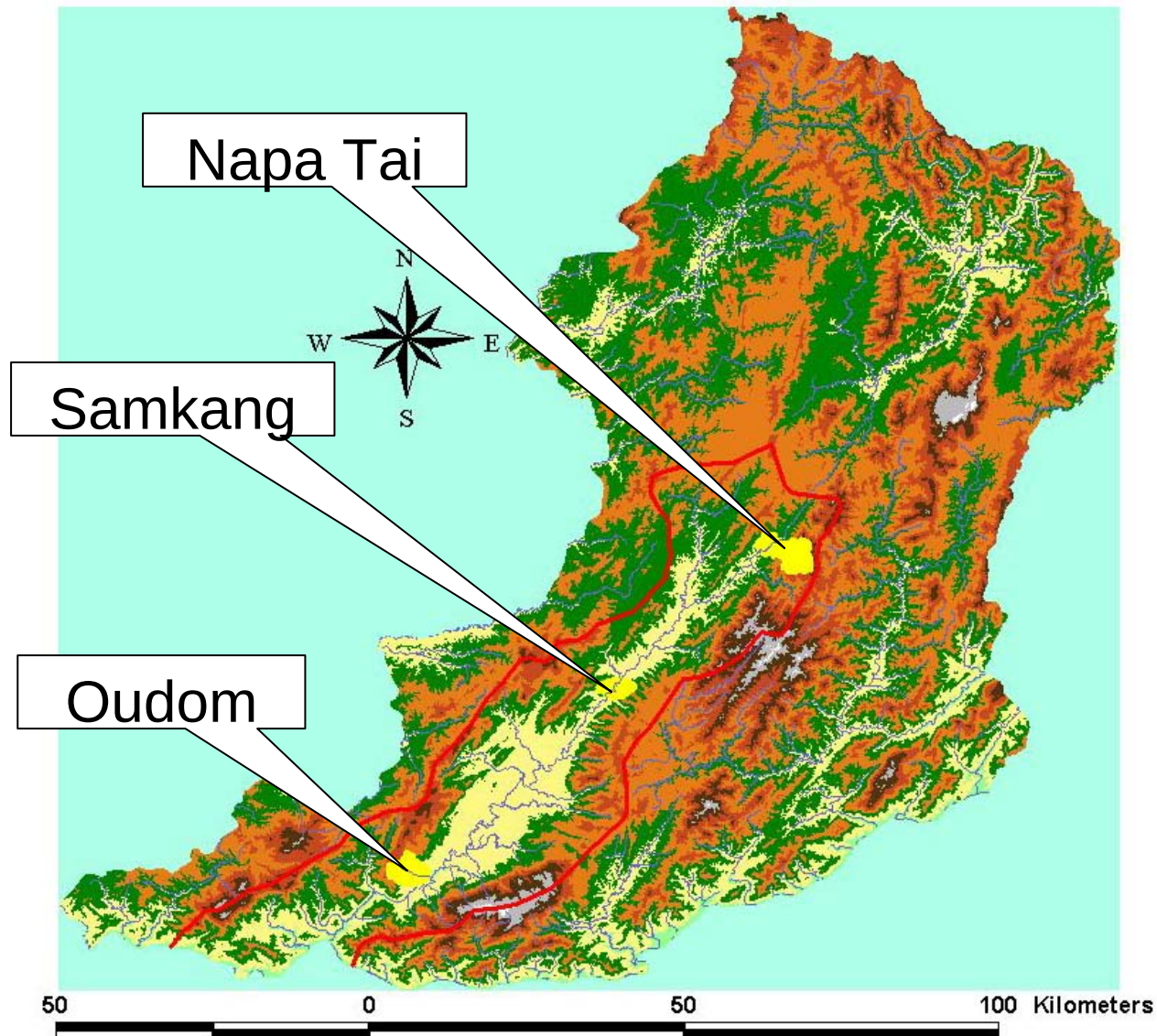
Chau Khe village



Changes in forest area in Mainland Southeast Asia (Forest area in 1990 is assumed to be 100)



Study Sites: Beng River Basin



Land use of Napa Tai village in 1973

1973

Legend



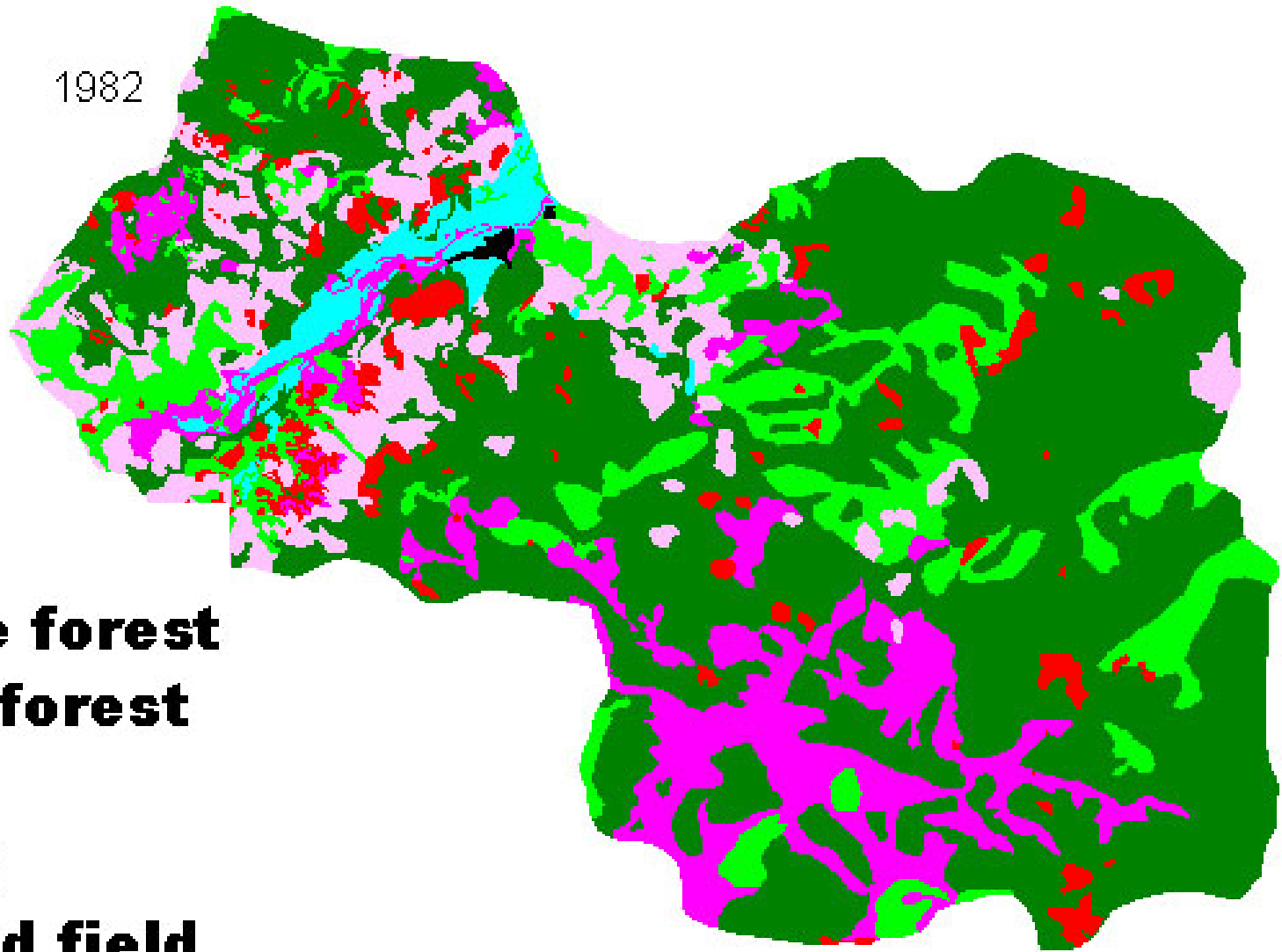
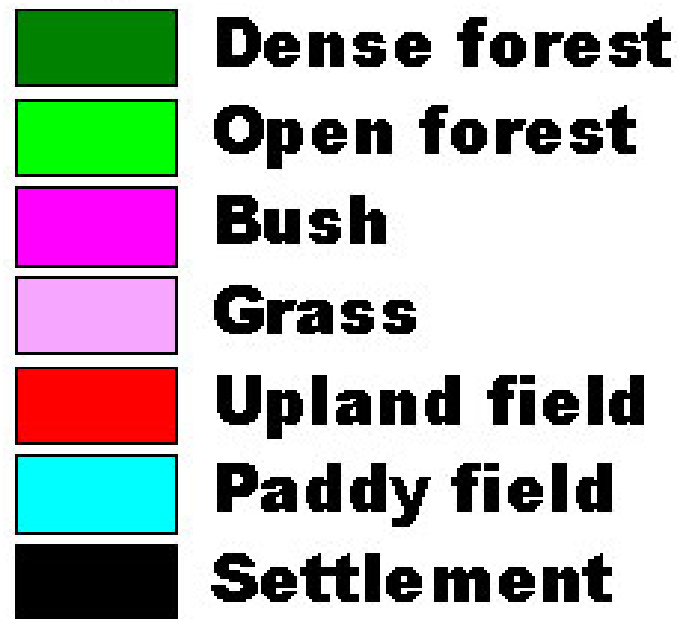
1000 0 1000 2000 3000 Meters



Land use of Napa Tai village in 1982

1982

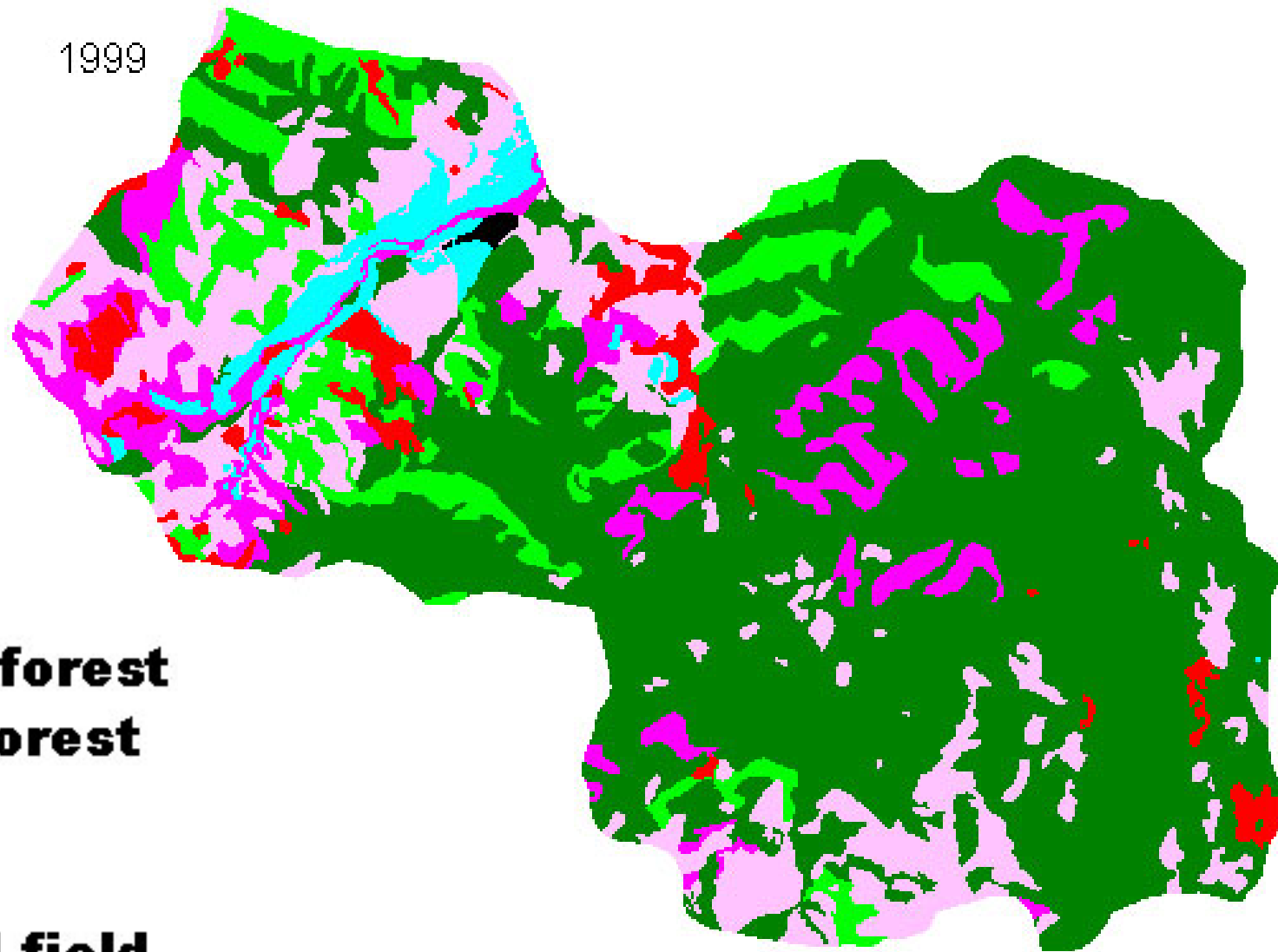
Legend



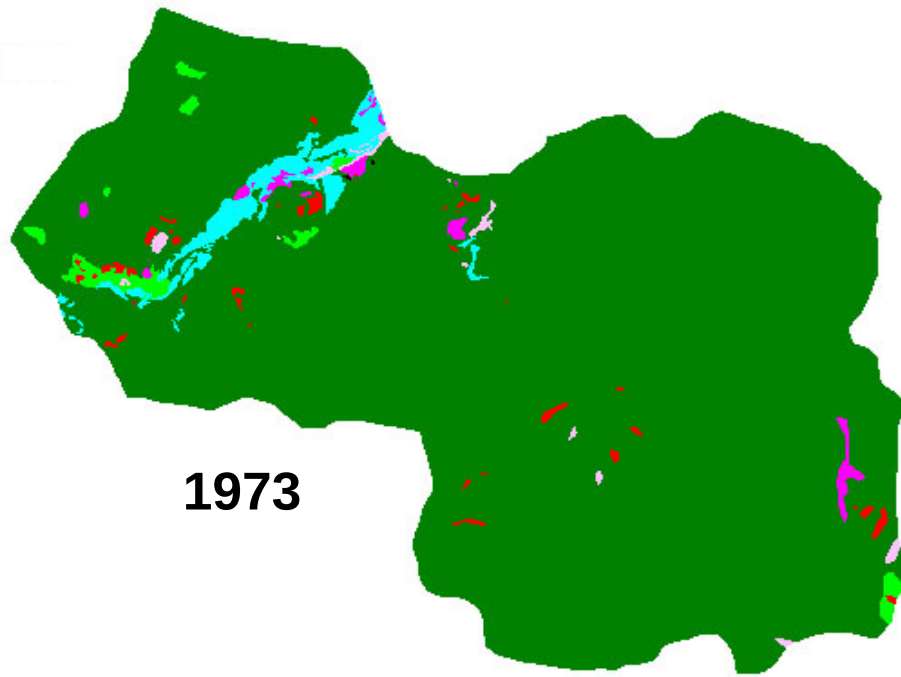
Land use of Napa Tai village in 1999

1999

Legend



Land use of Napa Tai village in 1973, 1982 and 1999

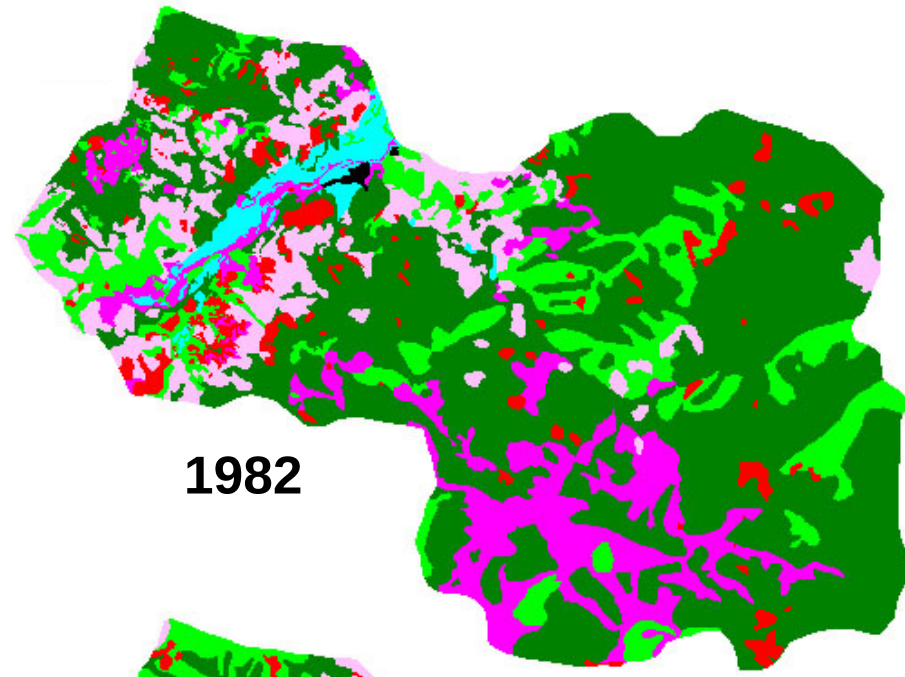
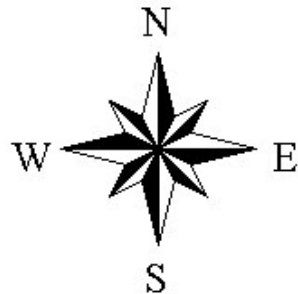


1973

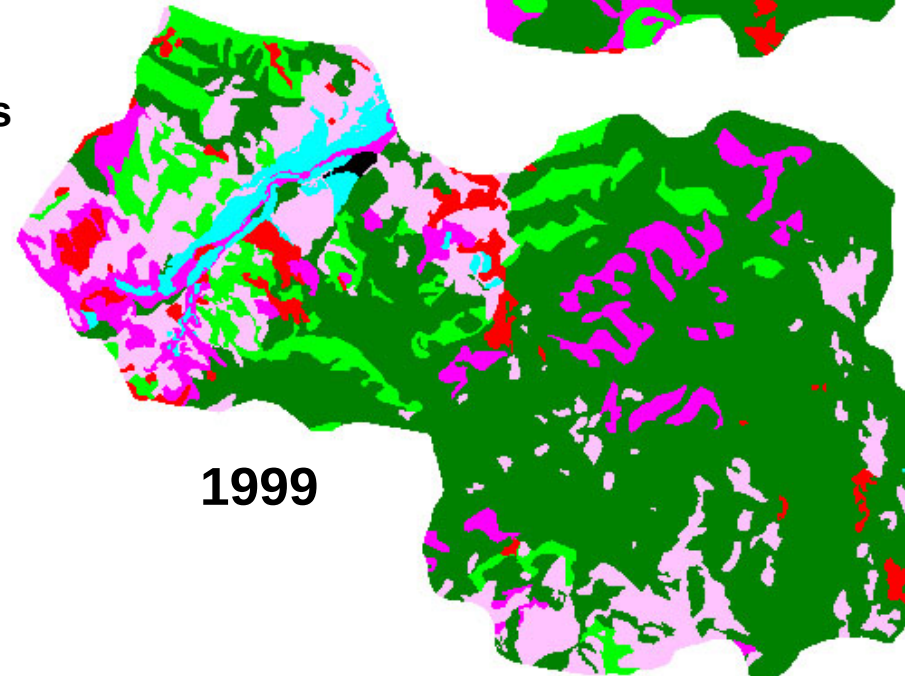
1000 0 1000 2000 3000 Meters



Legend



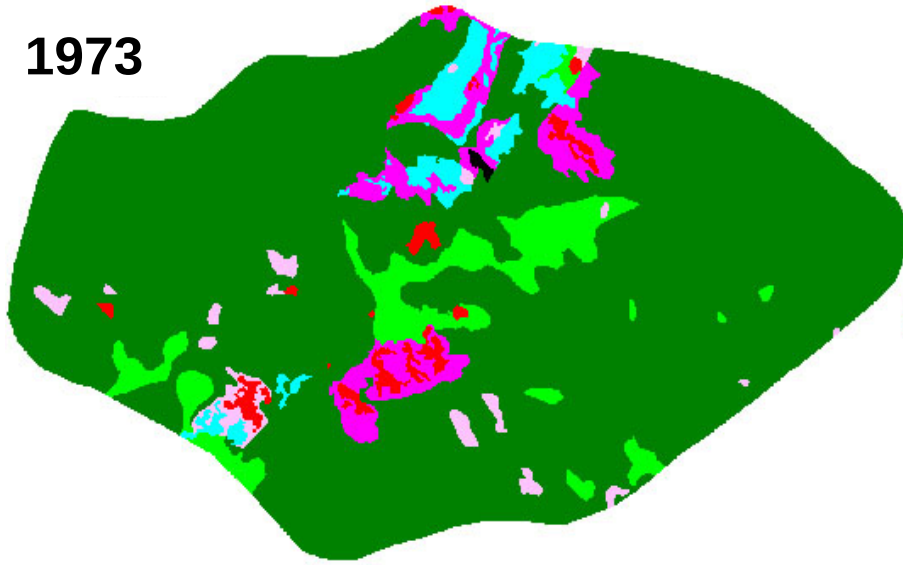
1982



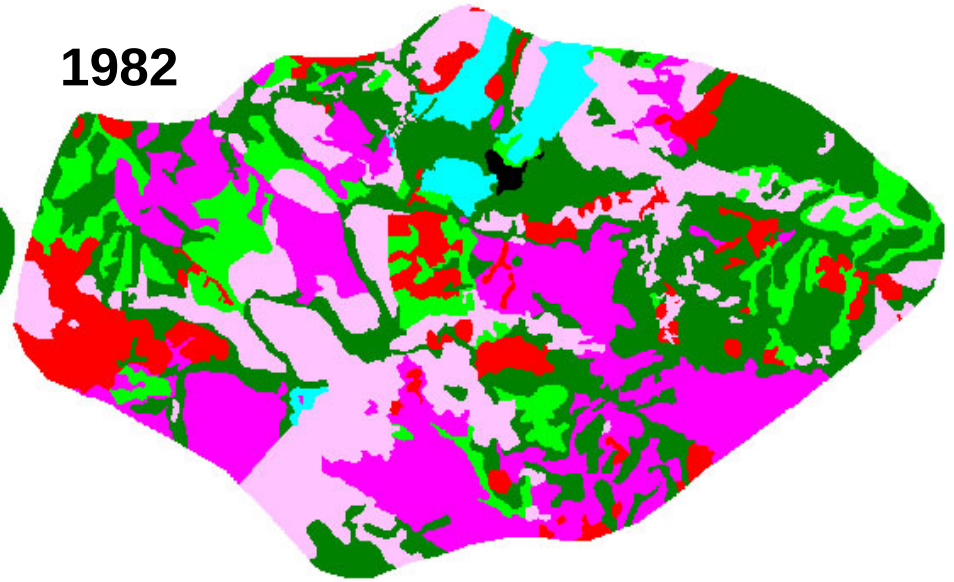
1999

Land use of Samkang village in 1973, 1982 and 1999

1973



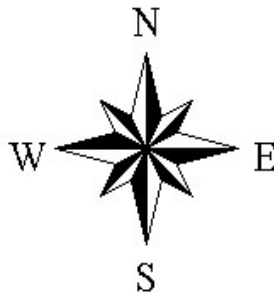
1982



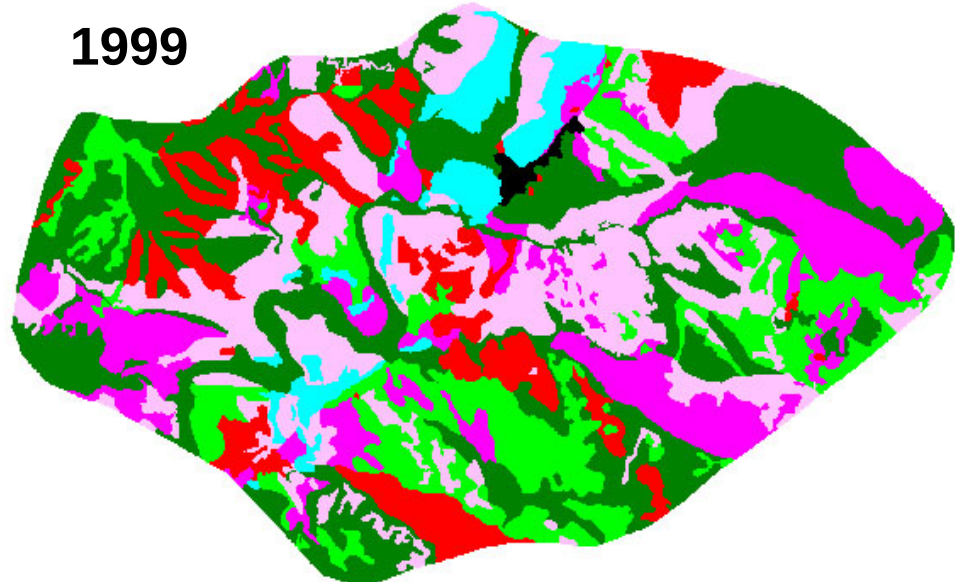
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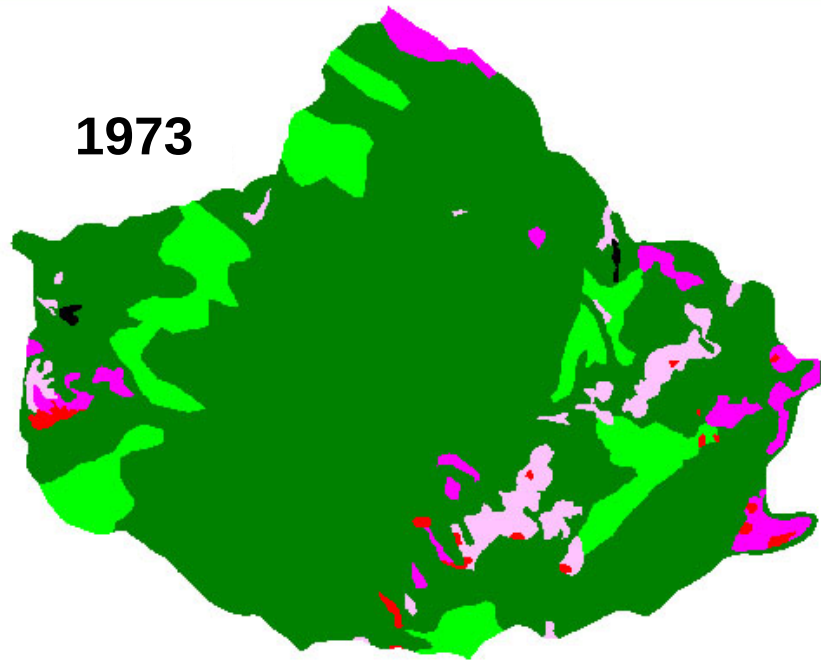
Legend



1999



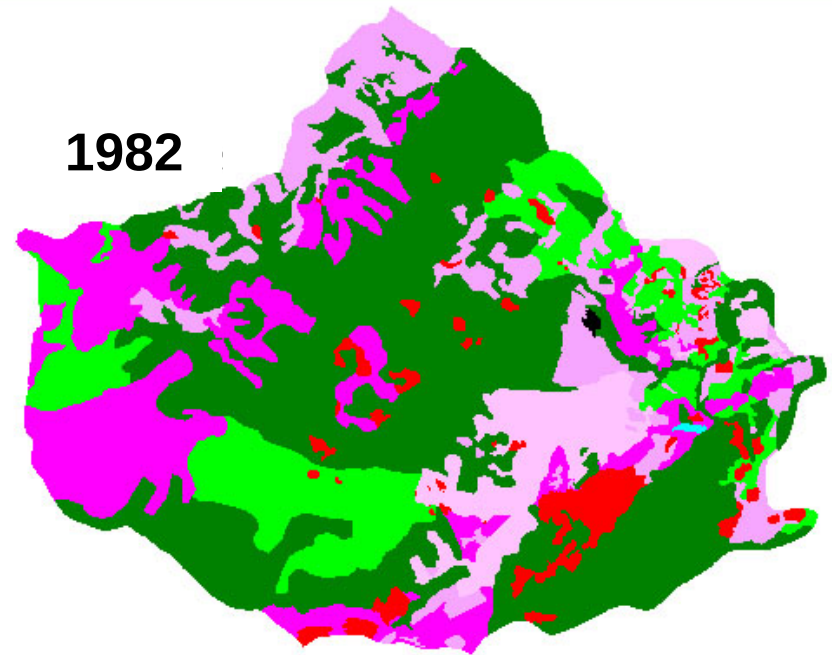
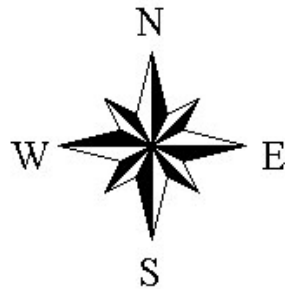
Land use of Oudom village in 1973, 1982 and 1999



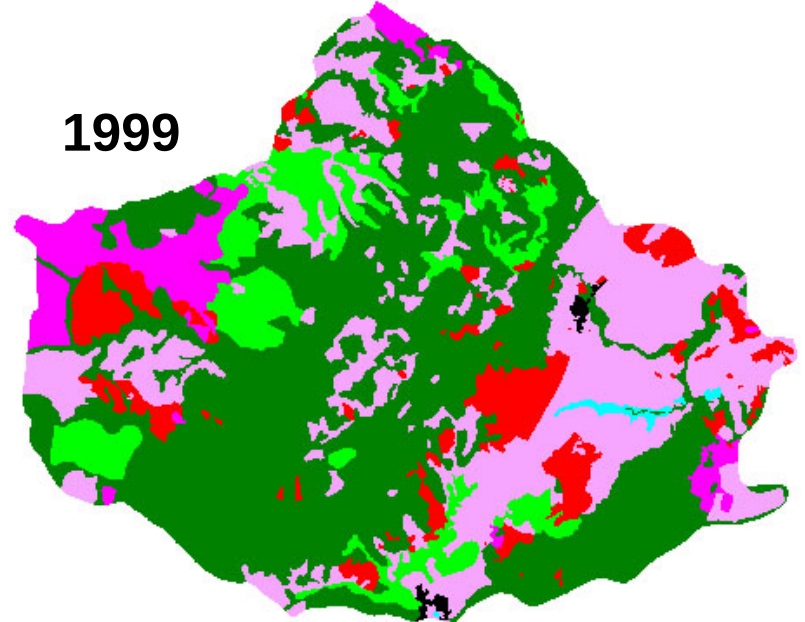
1000 0 1000 2000 3000 Meters



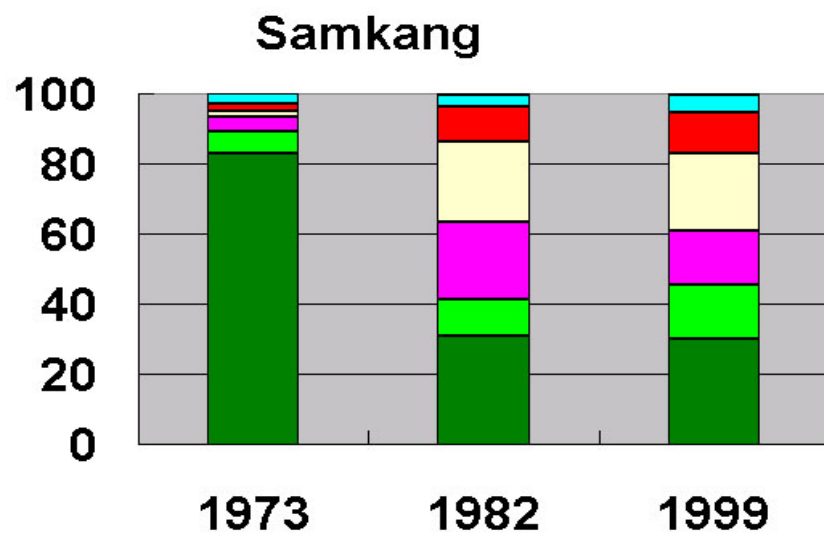
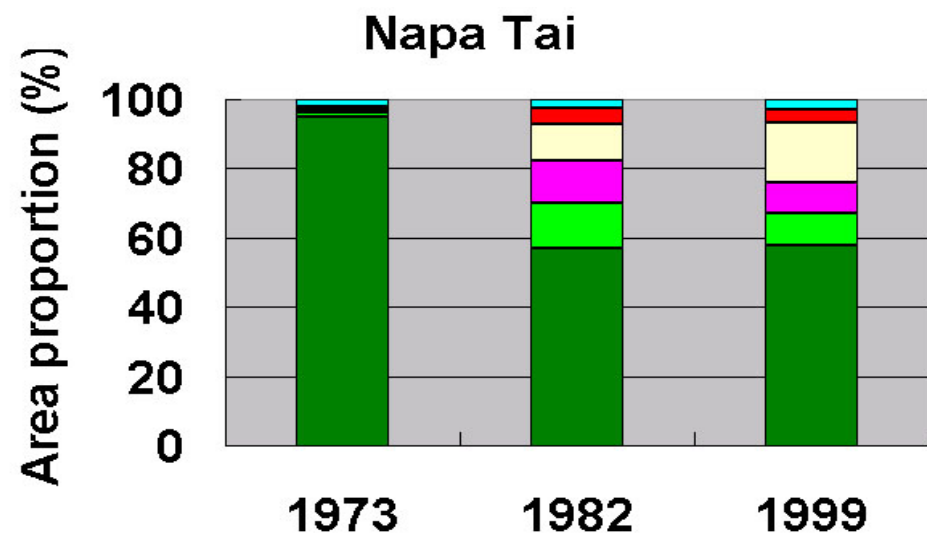
Legend



1999

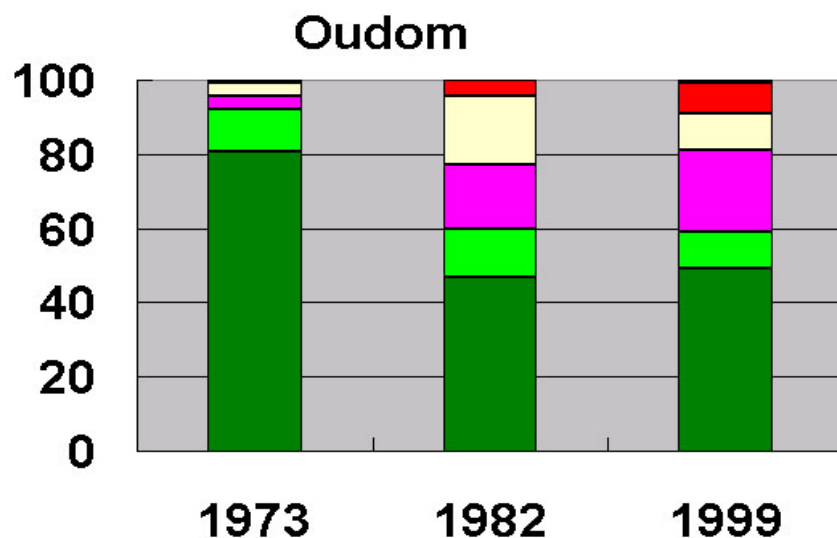


Changes in Land Use of the Three Village



Legend

- Settlement
- Paddy field
- Upland field
- Grass
- Bush
- Open forest
- Dense forest



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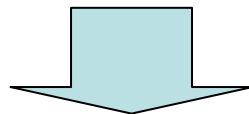
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土地被覆・利用変化メカニズムの二次元化

