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"Inventario de Gases de Efecto Invernadero de los Sectores Agrícola, Cambio de Uso del Suelo y Silvicultura"



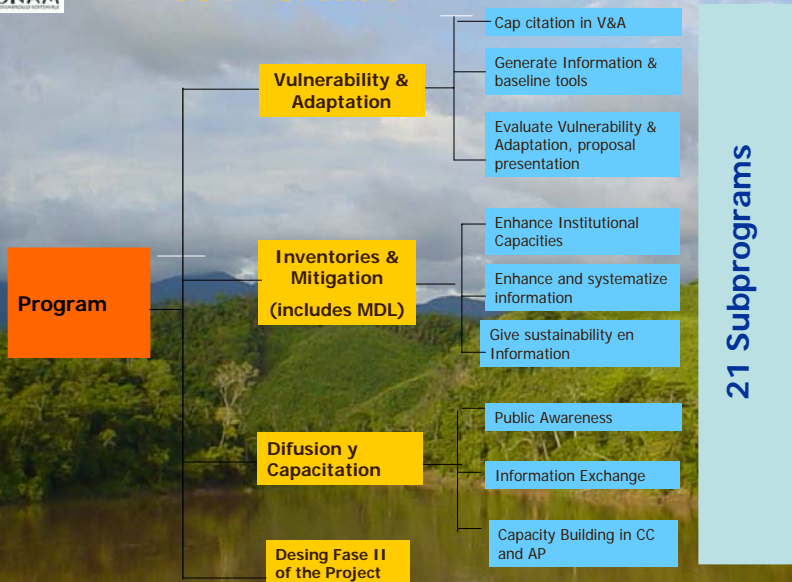
PROCLIM as a response to Climate Change and Air Pollution: Capacity Building



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PROCLIM Structure



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PROCLIM Achievements

- Technical information as input for decision making.
- Team work culture and commitment
- Institutional commitment
- Working Group: Scientific, technical, political and population.
- Population involvement
- Shared and Clear final objective
- Clearness in priorities and goals

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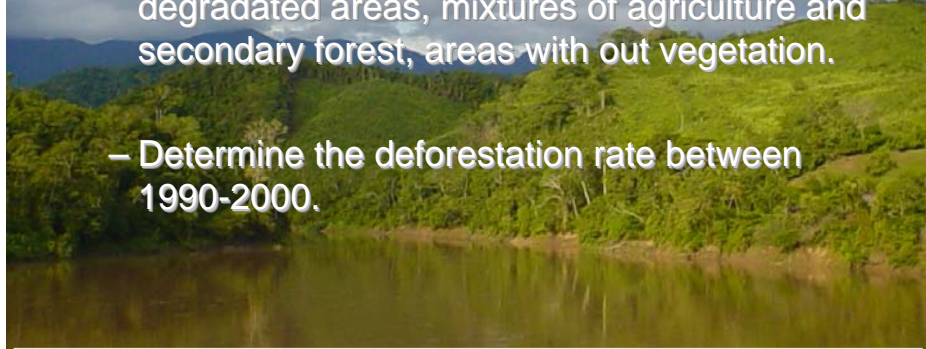
Deforestation Map of the Peruvian Amazon



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Objetives

- Determine the deforested area in the Peruvian Amazon of the year 2000, in LU classes : agricultural crops, pastures, secondary forest, degraded areas, mixtures of agriculture and secondary forest, areas with out vegetation.
- Determine the deforestation rate between 1990-2000.



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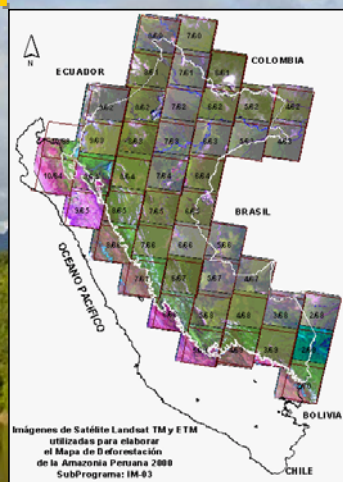
Satellite Images used:

45 Landsat TM y ETM+ images

- years 1999 – 2002 & 2003
- Bands composition 543, 54cp

Programs:

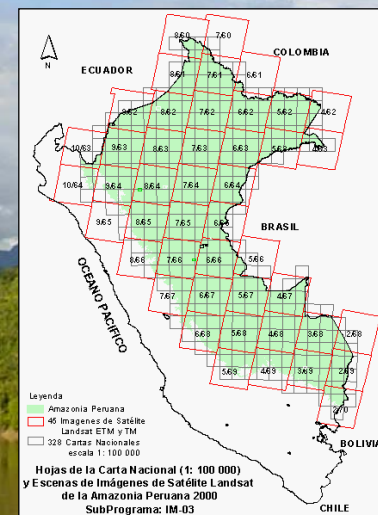
- ERDAS IMAGINE 8.6
- ArcView GIS 3.2a
- Map Source 4.08 (Garmin)



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Cartography used

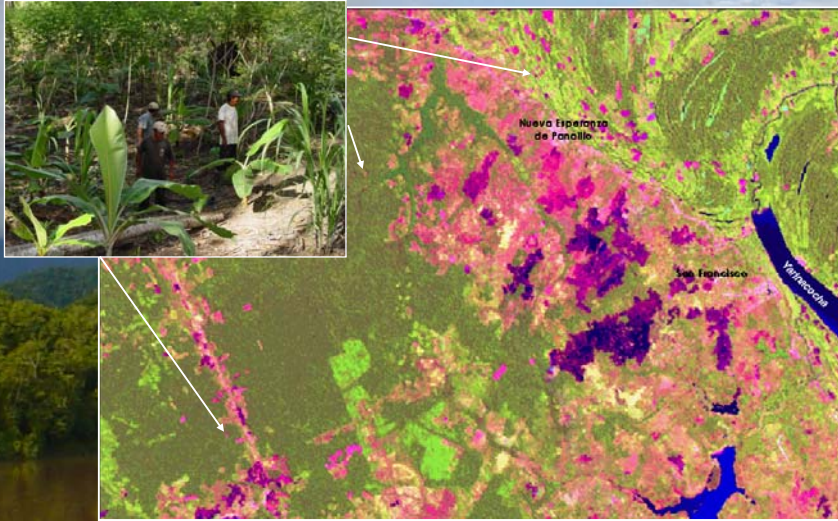
- INRENA
 - Amazonian limit, 1: 250 000
 - Forest Map 2000, 1: 250 000
 - Principal Hydrologic actualized
- MTC
 - Roads, 1: 100 000
- IGN / MINEDU
 - National charts: hydrography, level curves, 1: 100 000
- INEI
 - Political limits, 2003, 1: 100 000
 - Towns, 2003, 1: 100 000
- UTM Projection zone 18
- Datum: WGS 84



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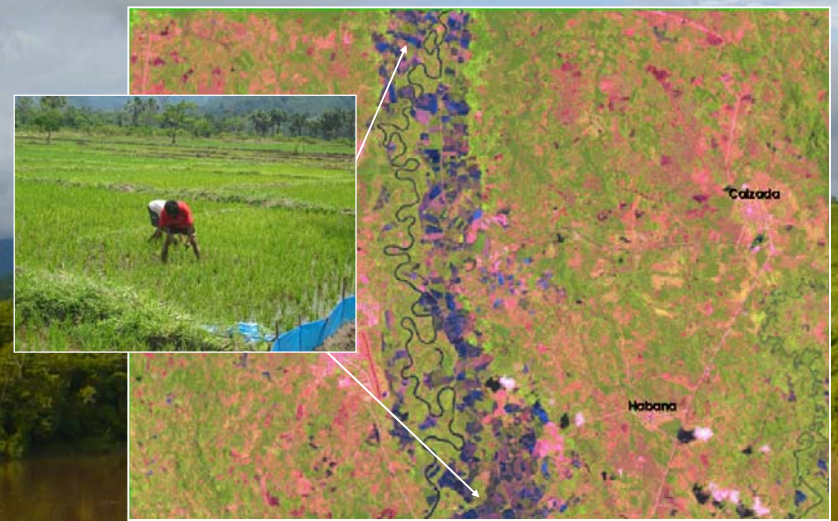
Interpretation example: Agriculture



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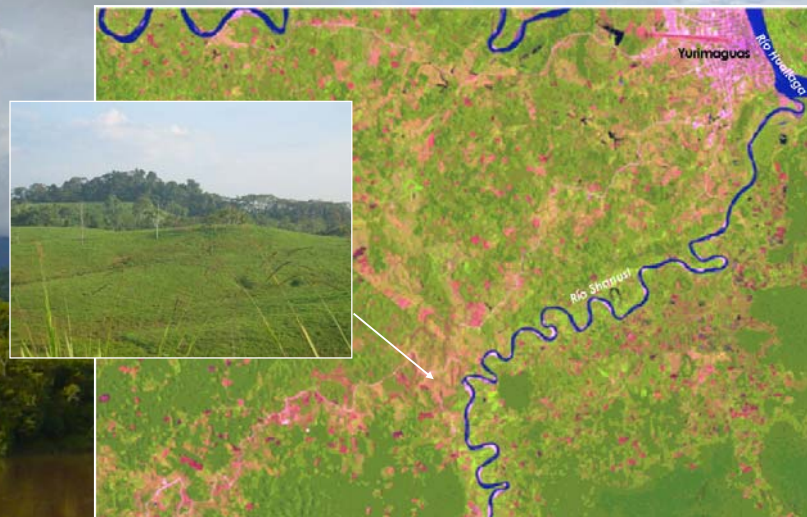
Class: Agriculture



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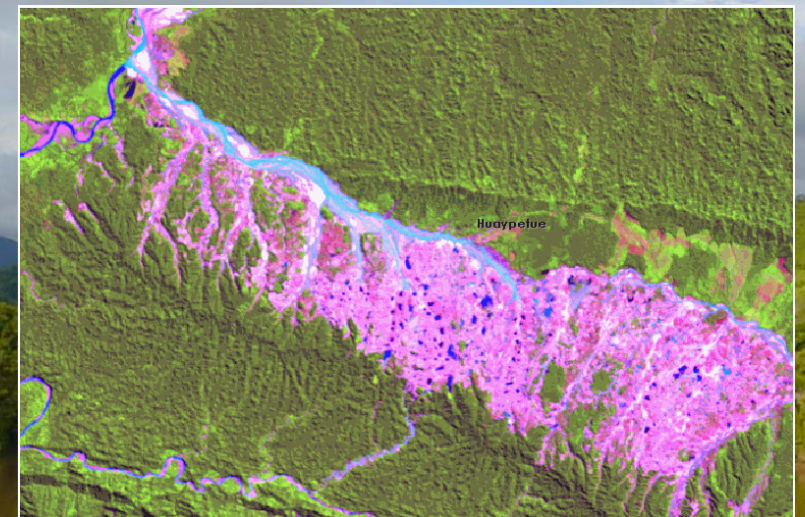
Class: Grassland



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Areas without vegetation

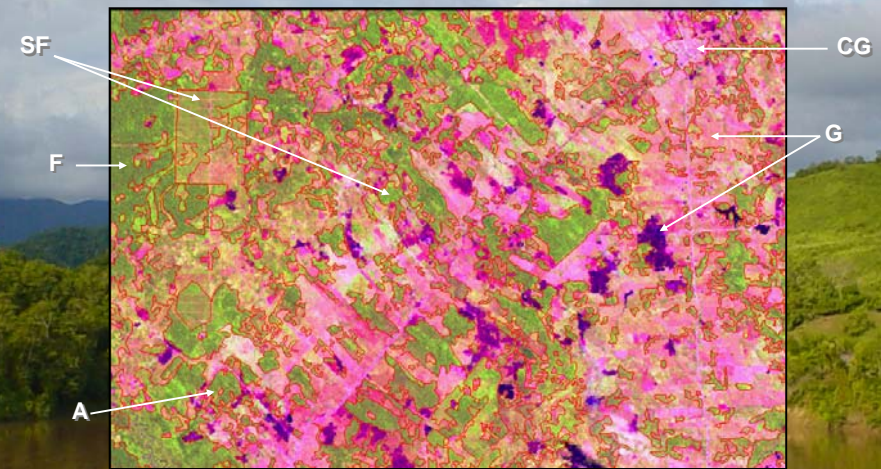


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Some Interpretation criteria

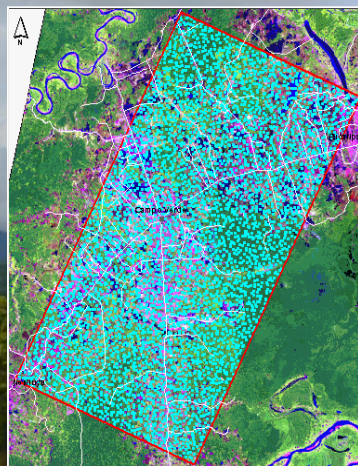
- Scale 1: 100 000
- Minimal unit area : 5 mm x 2 mm.
- Mixtures are considered when one of the 2 areas is 51 to 80% predominant over the other one.

preliminary interpretation



Escena 6/66

Validation Process

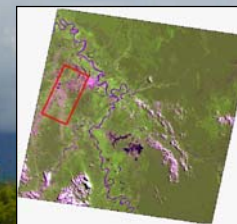


Puntos de grilla de 50 x 25 Km. y red vial del área de validación en el Sector Pucallpa-carretera Basadre.

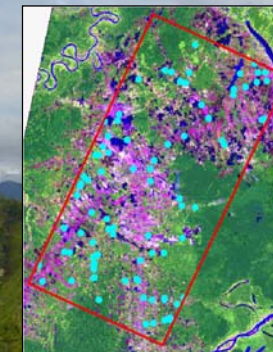


Puntos de la grilla que se encuentran dentro del Buffer de vías de 500 metros del área de validación Sector Pucallpa-carretera Basadre.

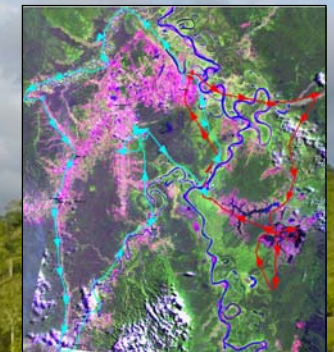
An example: Pucallpa



Ubicación del área de validación (1 área: 125 000 Há) Sector Pucallpa-carretera Basadre Escena 06/66



Área de validación Sector Pucallpa-carretera Basadre



Rutas de Sobrevuelo

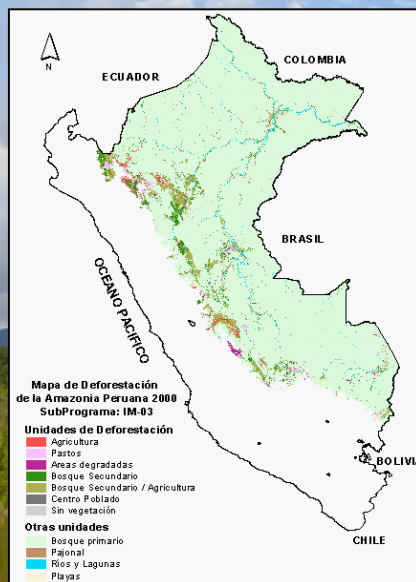
- Ruta 1: Pucallpa – Río Abujao- Masiseo – Laguna Imiría - Pucallpa
- Ruta 2: Pucallpa – Aguaytia- Neshuya – A. von Humboldt – Tournavista – Honoría – Campo Verde - Pucallpa

Deforestation Map of the Peruvian Amazon

Amazon Rain Forest 60.33% of the Peruvian Territory

1990/2000 1 496 318 ha.
(10.36% Peruvian Amazon rainforest)

Rate 149 631 ha/year



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Problems identified in previous activity:

- Standard methodologies not available
- Maps with different resolutions, classes and interpretation criteria.
- Lack of Continuity of information
- Institutions are unable to compare information along periods of time.
- Institutions of the LULUCS sector don't share information.

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Proposal for a Deforestation Monitoring System

Steps to be taken:

- Identify the existing information.
- Standardize criteria among institutions.
- Identify optimal software.
- Inter institutional arrangements for exchanging information.
- Create an Information Web
- Legal framework

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