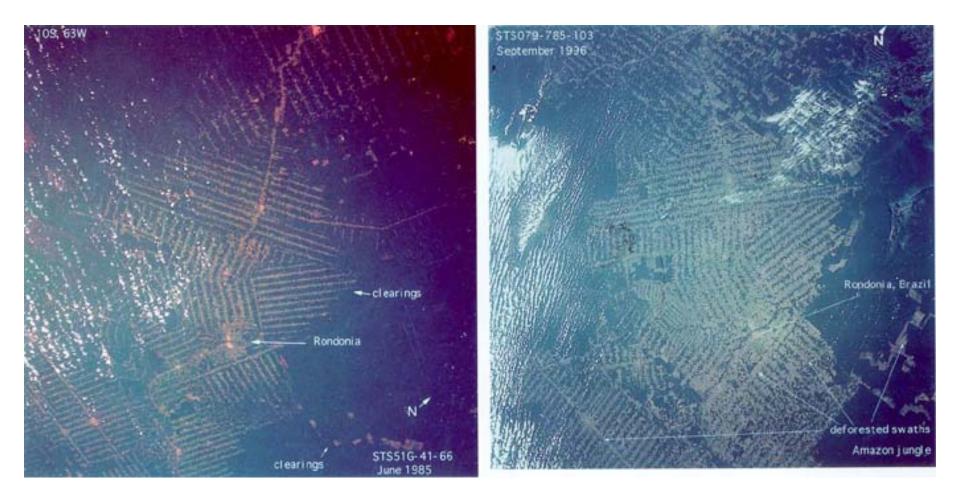
Deforestation in Rondonia, Brazil

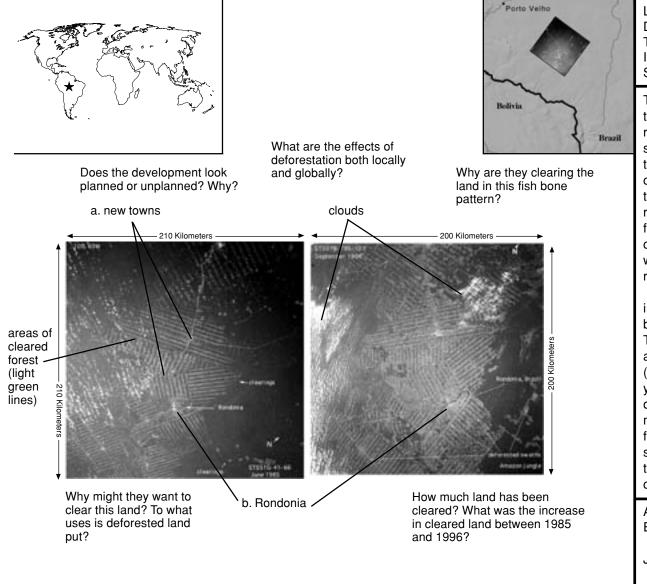






National Aeronautics and Space Administration

Deforestation in Rondonia, Brazil



Latitude: 8.13° S Longitude: 60.65° W Date: June 1985 and September 1996 Type of Image: Shuttle astronaut photos Image ID #: STS051G-41-66 and STS079-785-103

The southern Amazon Basin in Brazil is one of the regions of the Amazon rainforest undergoing rapid change, mostly in the form of forest conversion. In these two images of the same region, the light green lines and squares are areas of cleared forest which are used mostly for agriculture, and the very light yellow or gray spots at road or river junctions are new towns (a) in the forest. These two images are both roughly centered on the city of Rondonia (b), but they were taken 11 years apart, in 1985 and 1996 respectively.

The rainforest in this region is being cleared in a pattern that, from space, looks like fish bones. Clearing starts along roads and rivers. The cleared areas are mostly elongated rectangles (light green) that extend out into the forest (dark green) from the road or river. Over the years, the number of cleared plots and the size of the plots has increased, so that more and more land is cleared, and less land is covered in forest. The two images together create a time series, which allows for the assessment of the types and rates of change in land-use and forest clearing.

Additional information: EarthKAM images and lessons: http://www.earthkam.ucsd.edu JSC *Earth From Space* image database: http://earth.jsc.nasa.gov NASA Spacelink: http://spacelink.nasa.gov