

Topic 2a – Observing vegetation and mapping land use change

Video 2a Imagery

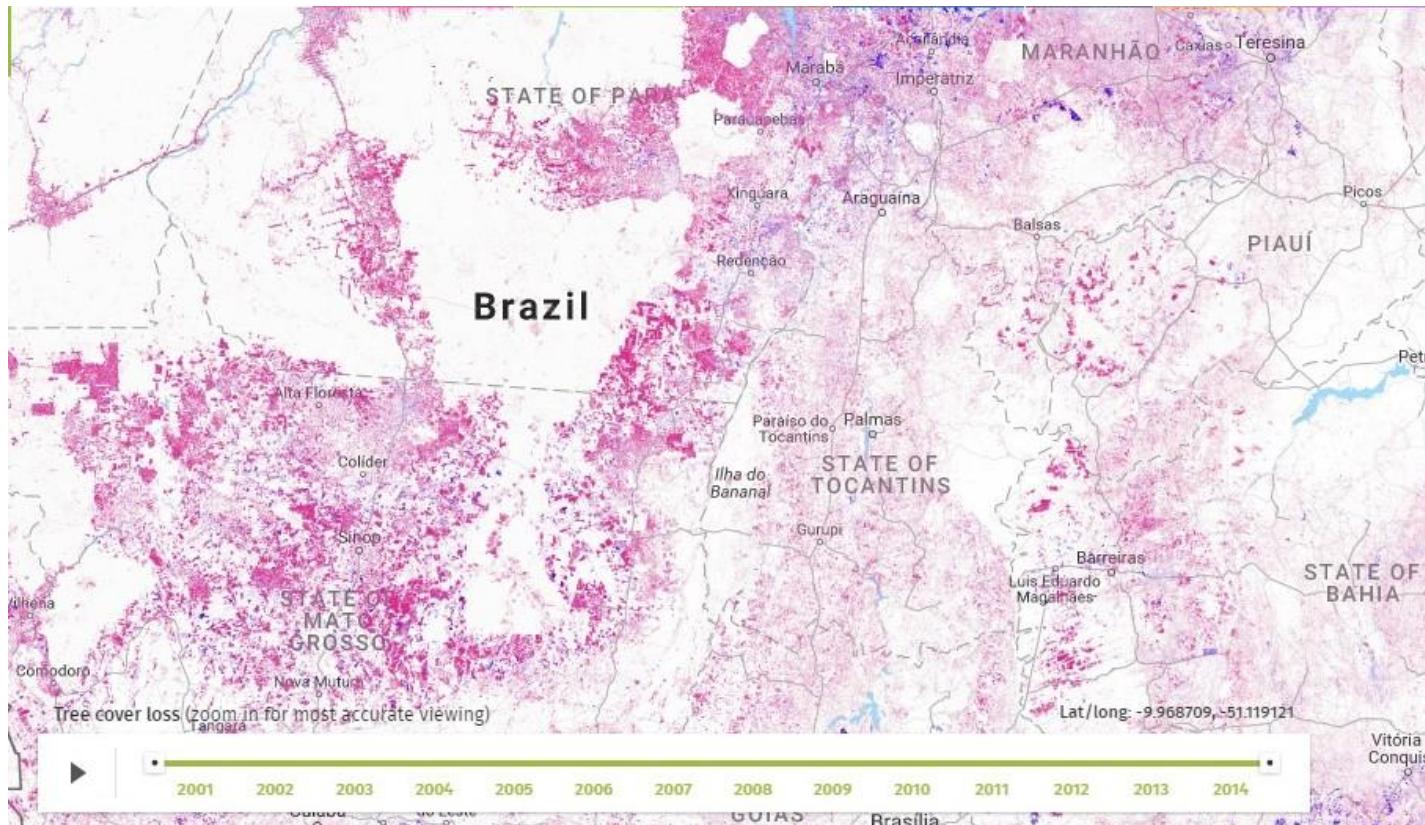


Contents

- Brazil Deforestation.....3
- Amazon Deforestation.....4
- Avezzano, Italy.....5
- Czech Republic Agriculture.....6
- Amazon River Deforestation.....7
- Oil Palms in Malaysia.....8

Brazil Deforestation

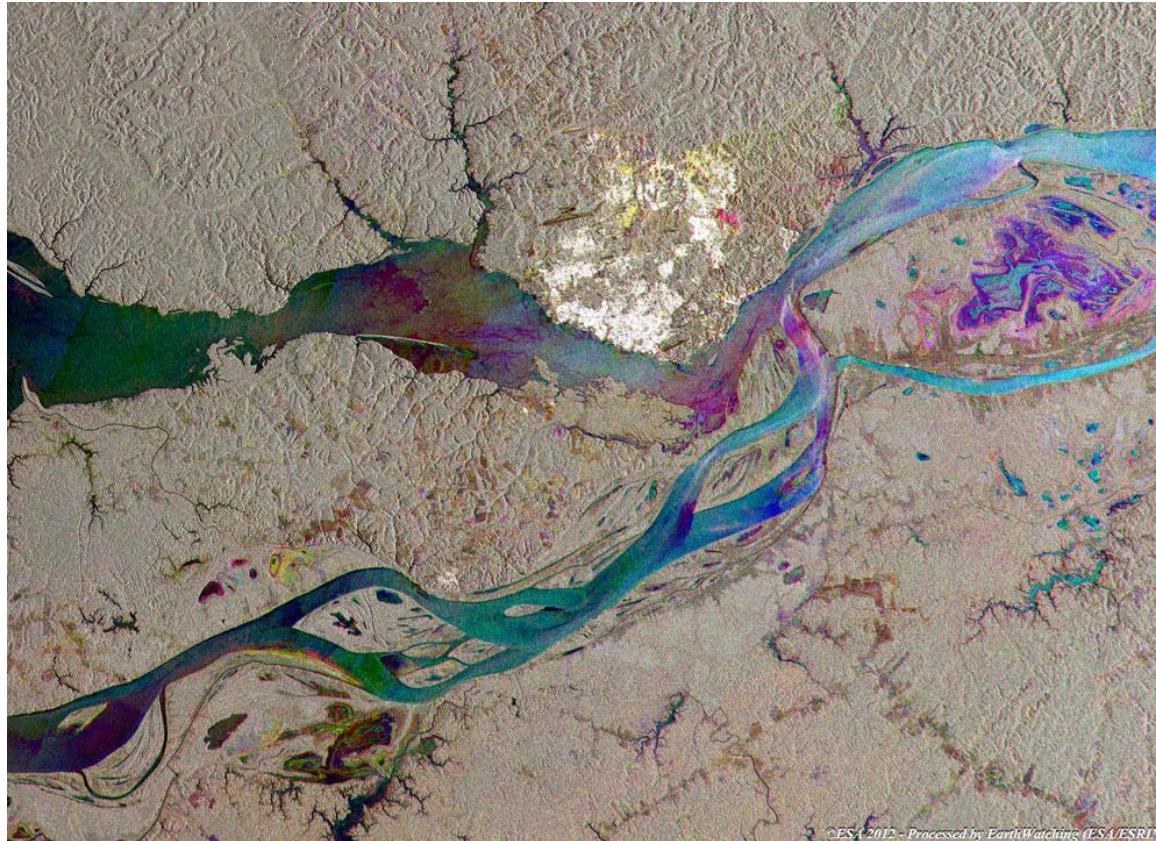
Global Forest Watch map of forest loss using Landsat data



Source: http://www.globalforestwatch.org/map/6/-9.97/-51.12/ALL/grayscale/loss,forestgain?tab=analysis-tab&begin=2001-01-01&end=2015-01-01&threshold=30&dont_analyze=true

Amazon Deforestation

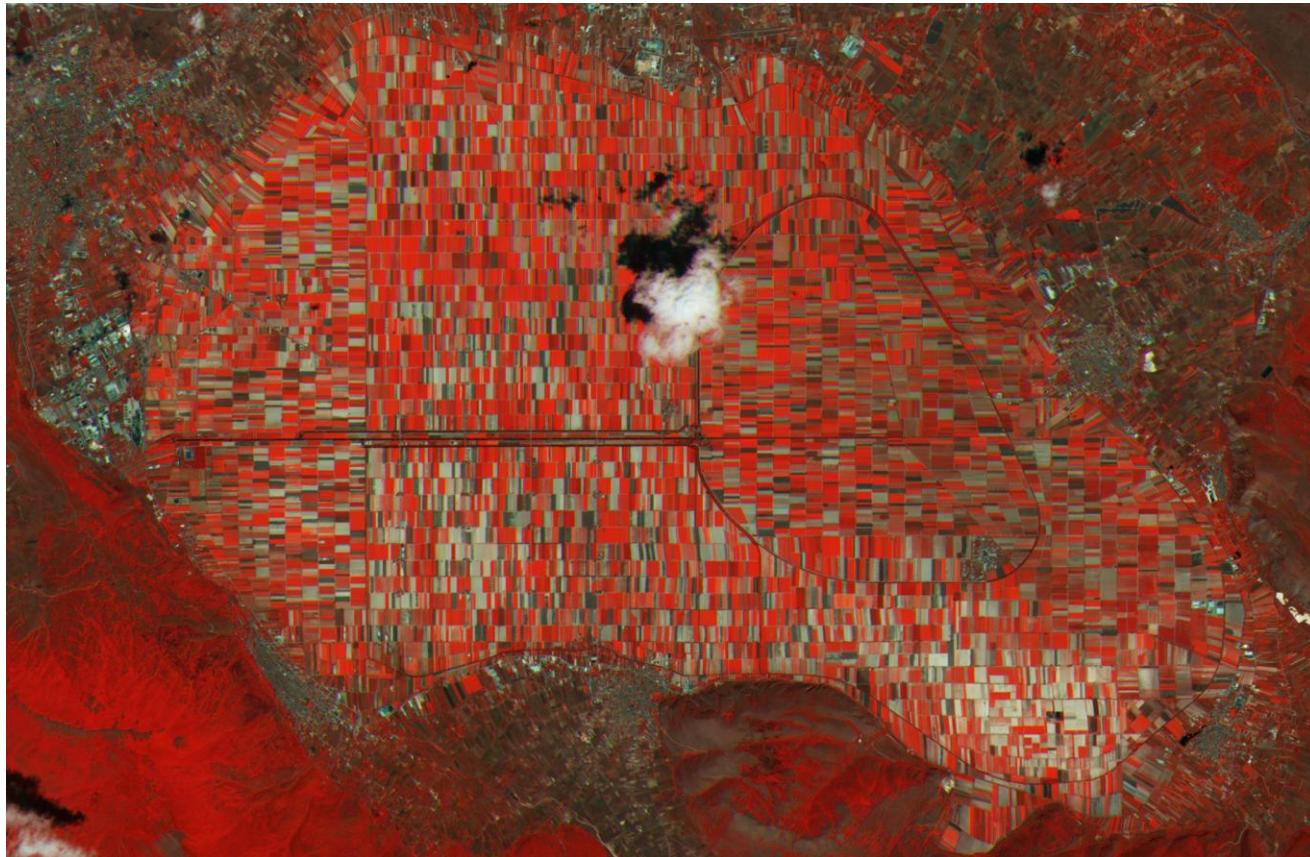
Satellite image showing deforestation in light brown patches.



Source: https://earth.esa.int/web/earth-watching/special-events/content-/asset_publisher/CrWyoA6dWnwl/content/amazon-rainforest-deforestation-brazil-

Avezzano, Italy

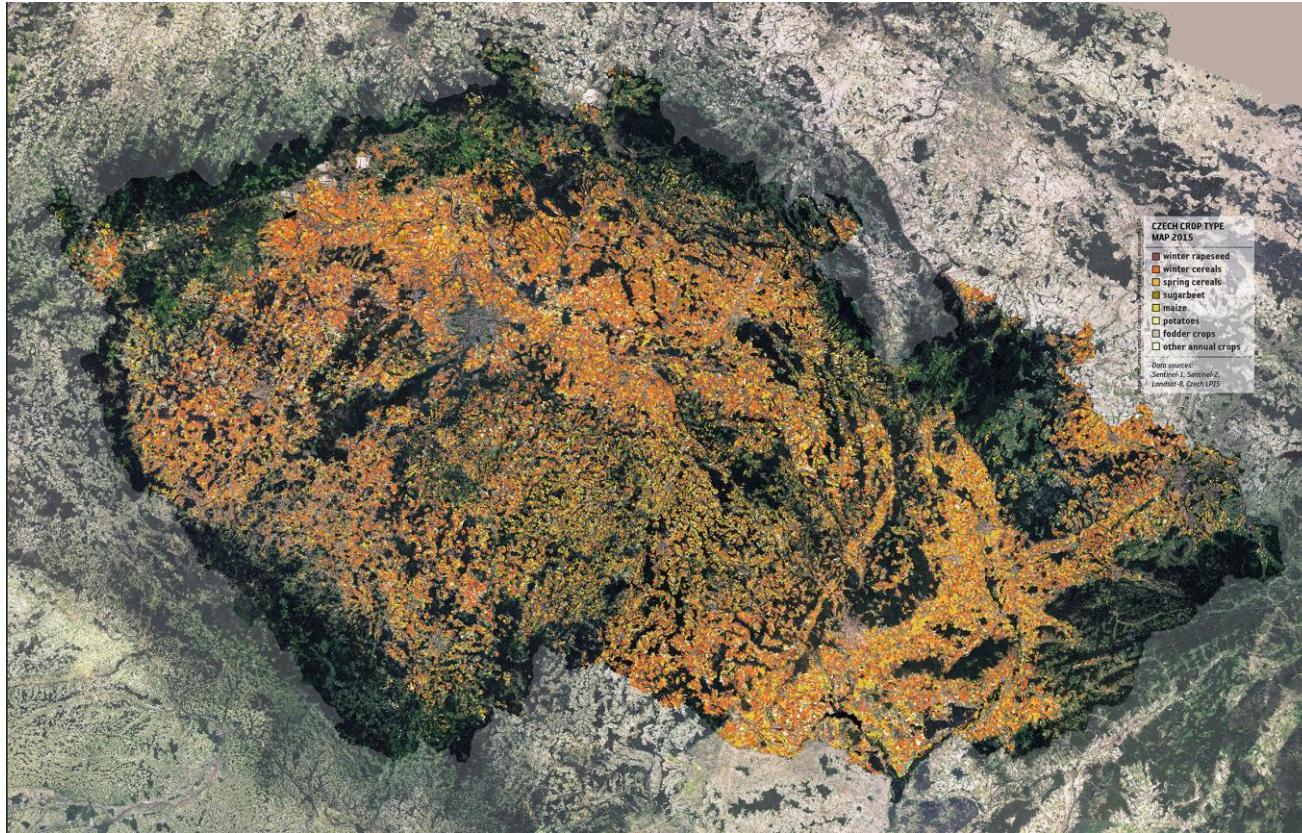
Sentinel-2A false colour image shows agricultural structures in the Abruzzo region of central Italy



Source: <http://phys.org/news/2015-09-image-avezzano-italy-captured-sentinel-2a.html>

Czech Republic Agriculture

Crop type map, created by combining over 1000 scenes from Sentinel-1 and -2, and Landsat



Source: [http://www.esa.int/spaceinimages/Images/2016/05/Czech Agriculture from Space](http://www.esa.int/spaceinimages/Images/2016/05/Czech_Agriculture_from_Space)

Amazon River Deforestation

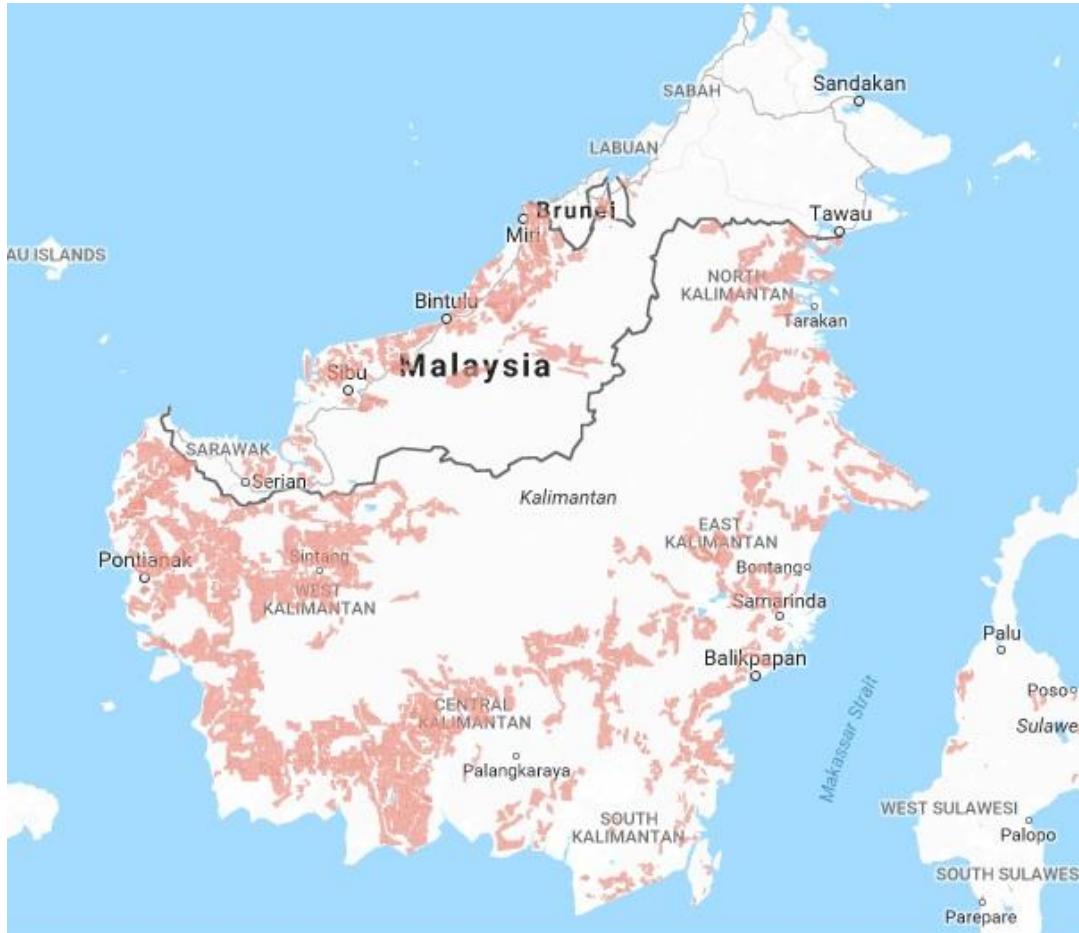
False colour Kompsat-2 image of the Amazon River



Source: http://www.esa.int/spaceinimages/Images/2013/10/The_Amazon_River

Oil Palm in Malaysia

Global Forest Watch map of Oil Palm in Malaysia created using Landsat data



Source: http://www.globalforestwatch.org/map/6/1.40/114.48/ALL/grayscale/none/556?tab=analysis-tab&dont_analyze=true