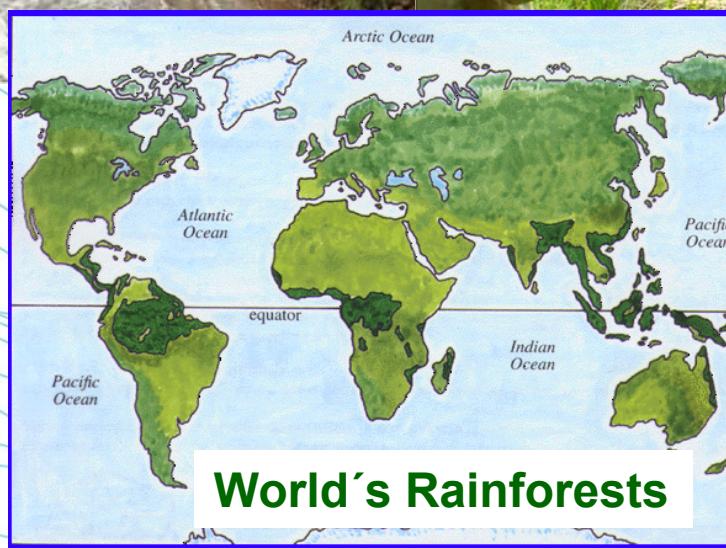
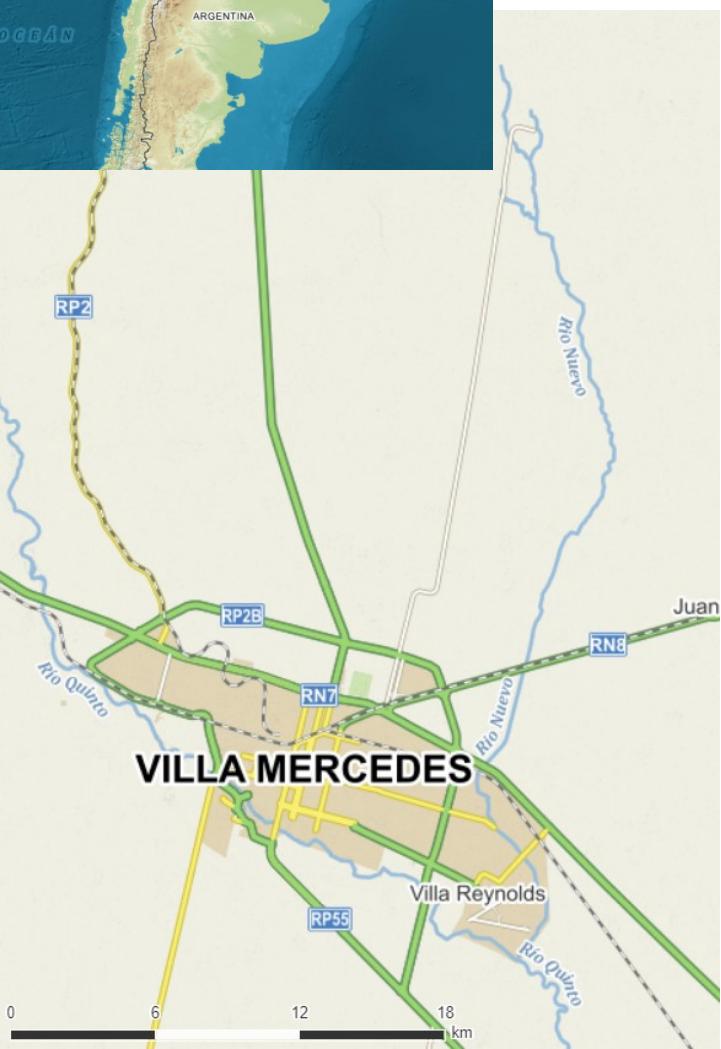


Klíčová role vegetace v hydrologickém režimu krajiny - tři příklady ze světa

VÚV
TGM



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Villa Mercedes, Pedernera Department, Argentina
Pampas – Espinal
sandy or silty-sand loess
cattle from 17th century
today soya



Switch from ranching to farming throughout La Plata Basin

1/3 from 3.170.000 km²



Cond. = 6430 µS/cm

Deforestation, conversion
grassland to arable land, soya
beans => water table rise
wet years => erosion & salinization





When nature says 'Enough!'

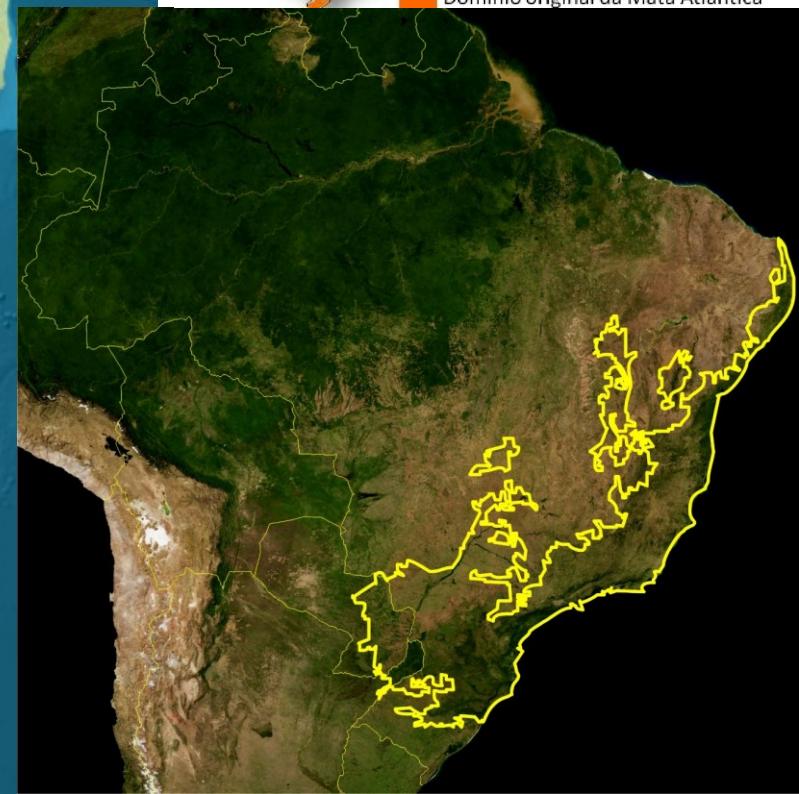
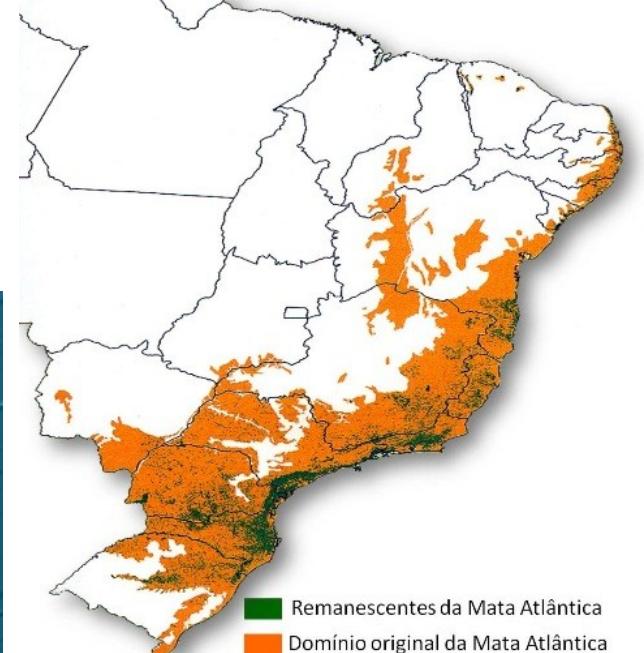
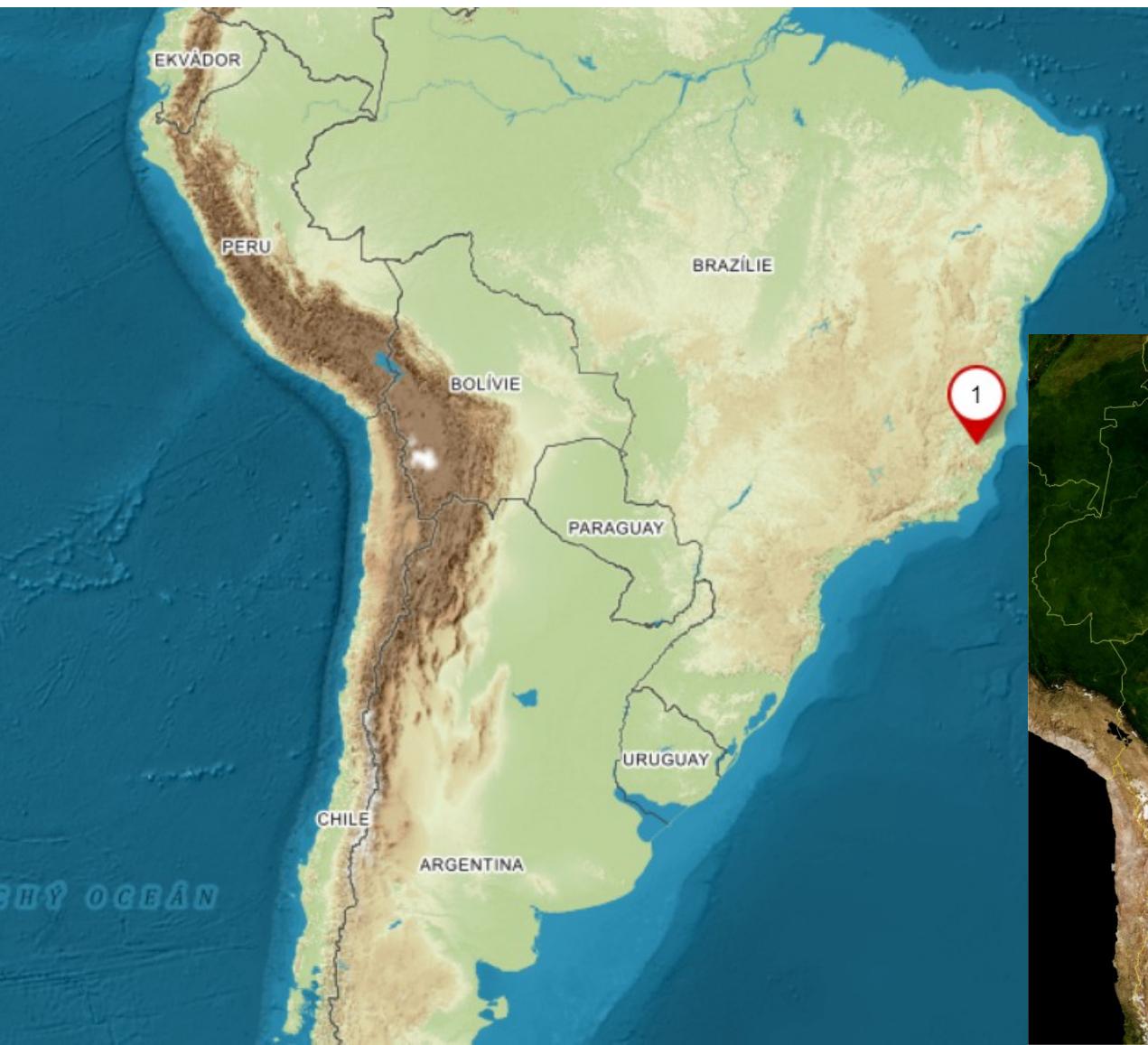
the river that appeared overnight in Argentina

„The ravine that carved its way so dramatically across Risatti's farm that night has by now grown 15-miles (25 km) long. At its deepest point, it measures more than 60 metres wide and 25 metres deep.“ *The Guardian, Uki Goñi in Villa Mercedes; Sun 1 Apr 2018*

Atlantic Forest (port. Mata Atlântica)

původně cca 1.000.000–1.500.000 km²

dnes 85 % odlesněno



2000



Bulcão Farm in Aimorés, Minas Gerais, Brazil
cattle ranch originally 1,740 acres (7 km²)

2006



2012



**reforestation, education, research
restoration of the ecosystem
production of seedlings
environmental education
applied scientific research**



**1999 first planting
2001 seedlings own production (80.000)
2002 greenhouse enlargement (400.000)
2008-12 cca 1.000.000 seedlings/year
& over 290 Atlantic Forest species**



RPPN Fazenda Bulcão - 2000



RPPN Fazenda Bulcão - 2013



© Sebastião Salgado

Brazilian Men of the year 2014
The Salt of the Earth ([2014](#)): W. Wenders



Cooling effect of the world's rainforests

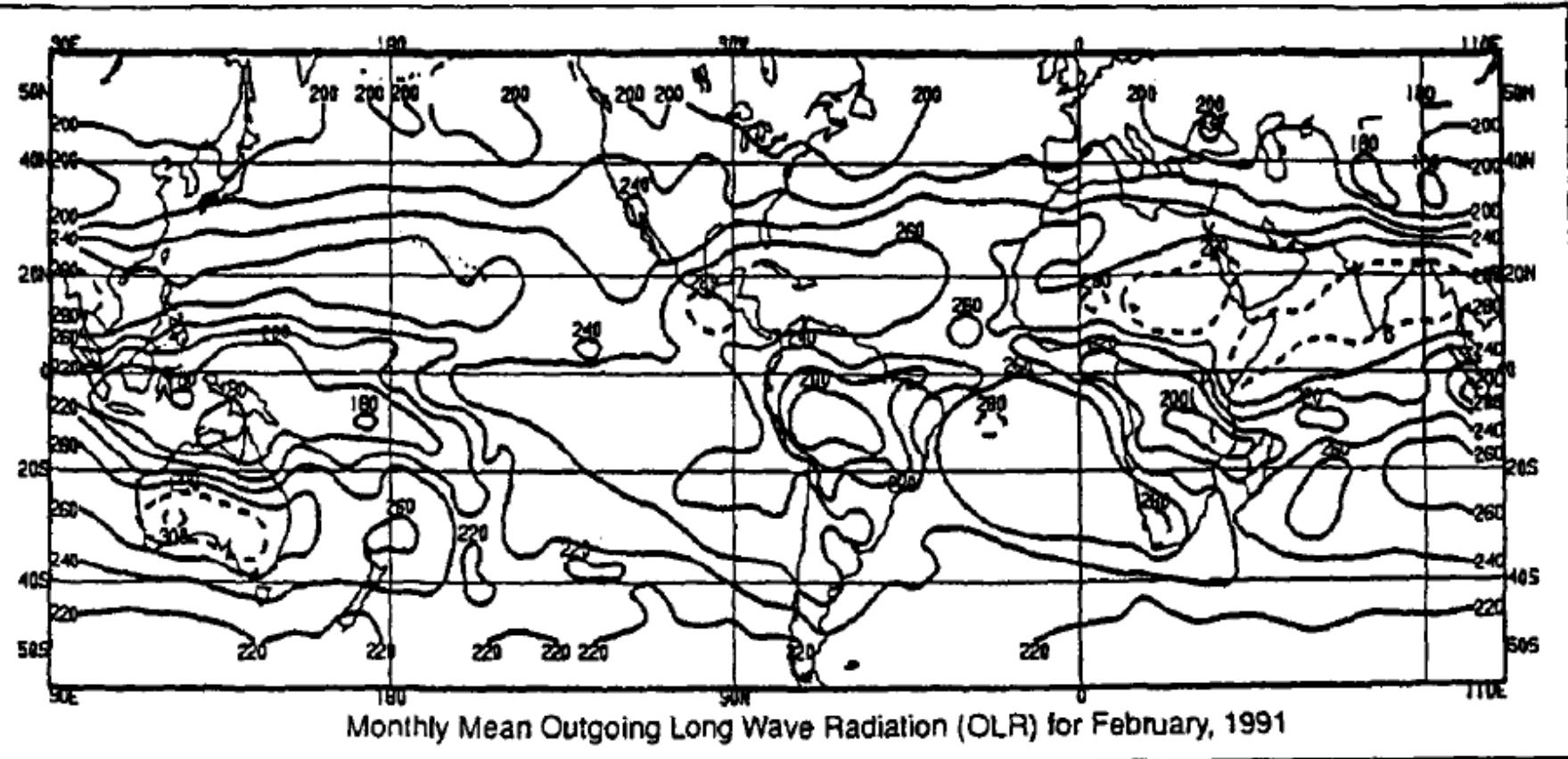


Figure 5. The mean monthly outgoing long wave radiation (OLR) is measured by the NOAA-9 polar orbiting satellite using the infrared channel. Contours are in watts/m². Note the low longwave emissions over the tropical rain forests and high values over the earth's deserts.

Závěr?

Za domácí úkol přečíst:

Úlehla, V. (1947): Napojme prameny - O utrpení našich lesů.- Život a práce, Praha, pp. 127.

