Does RSPO Certification Reduce Deforestation or Fire in Indonesia?

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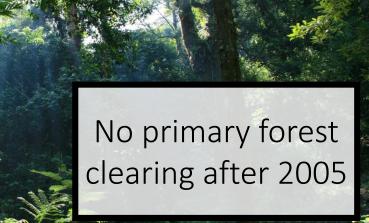




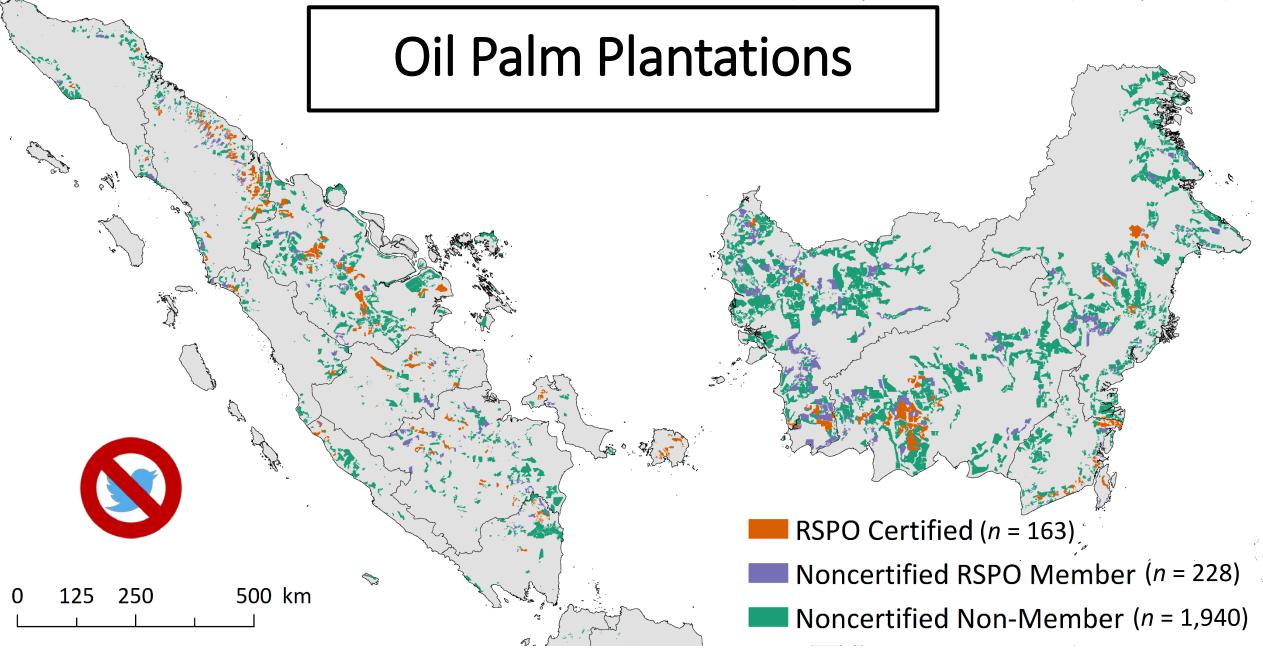
Why would certification reduce deforestation?

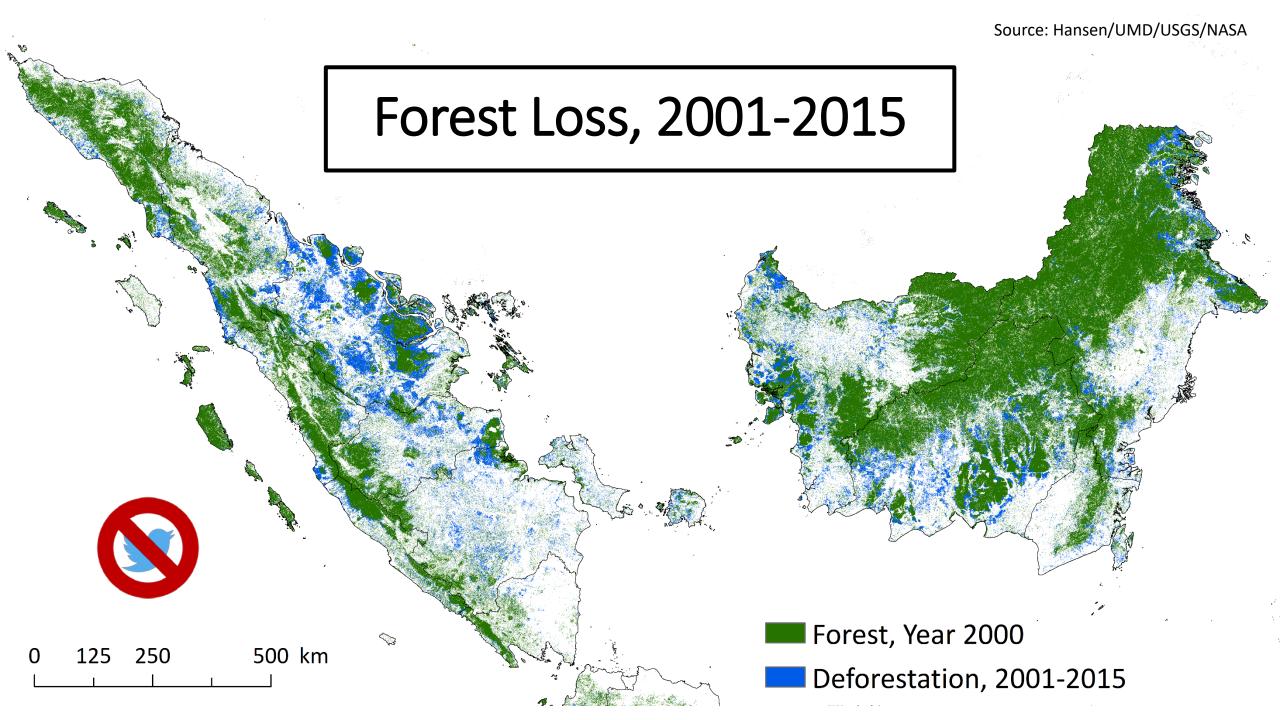
Riparian buffer protection Preservation of High Conservation Value areas

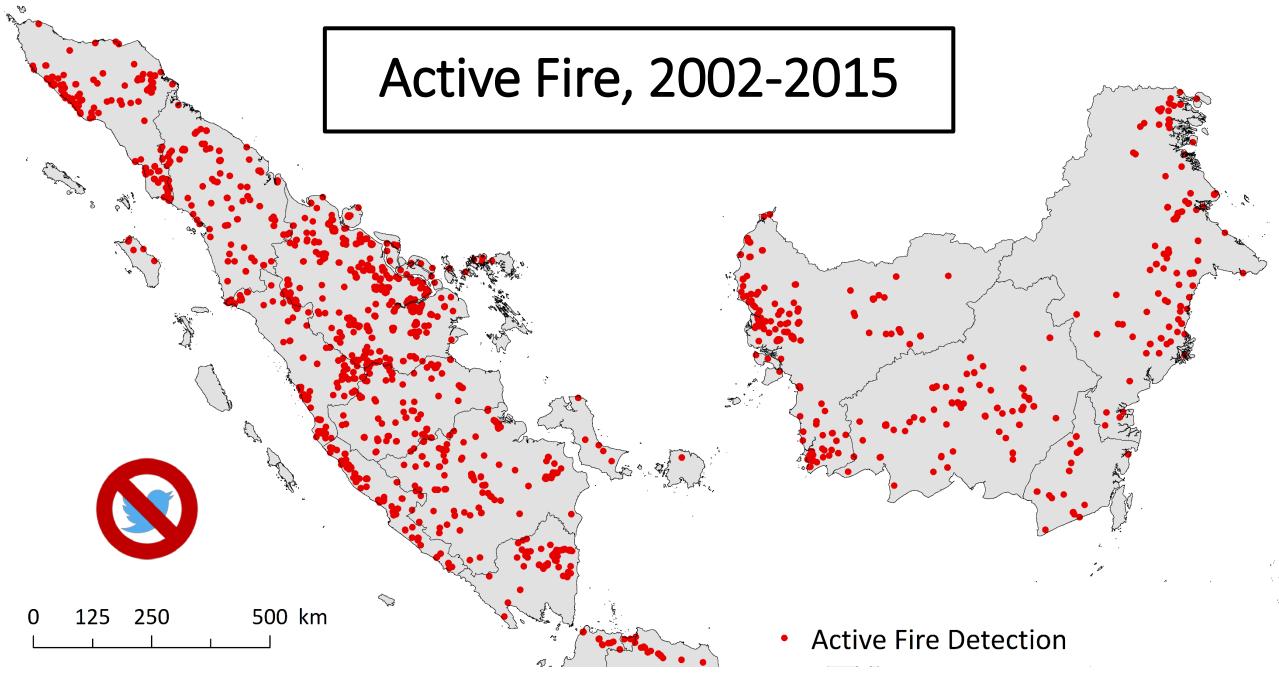
No use of fire for land clearing



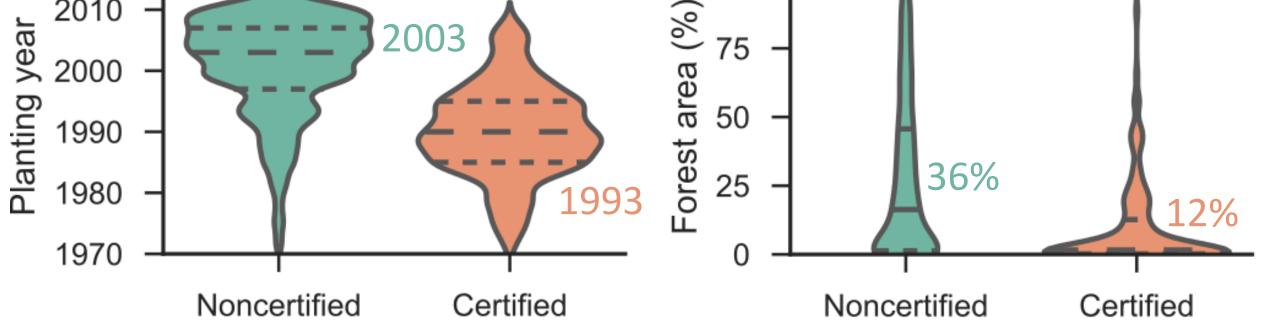
Noncertified source: Sawit Watch, Greenpeace Certified source: GLUE (University of Wisconsin), Carlson Lab (University of Hawai'i)





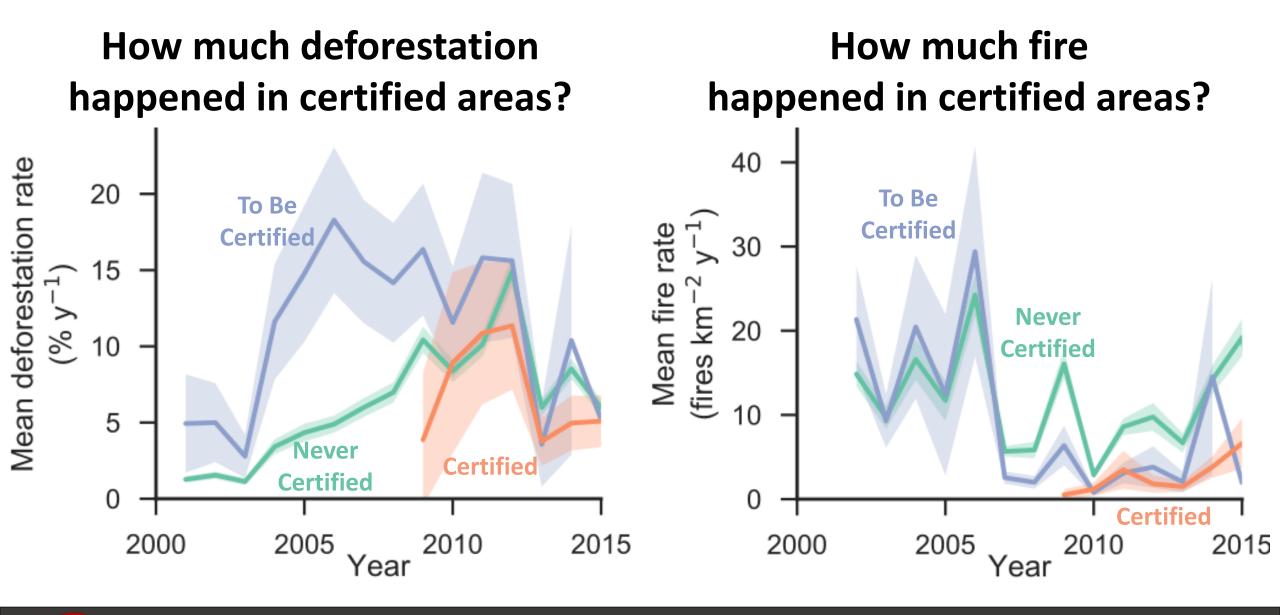


When were plantations developed? How much forest did they have in year 2000?



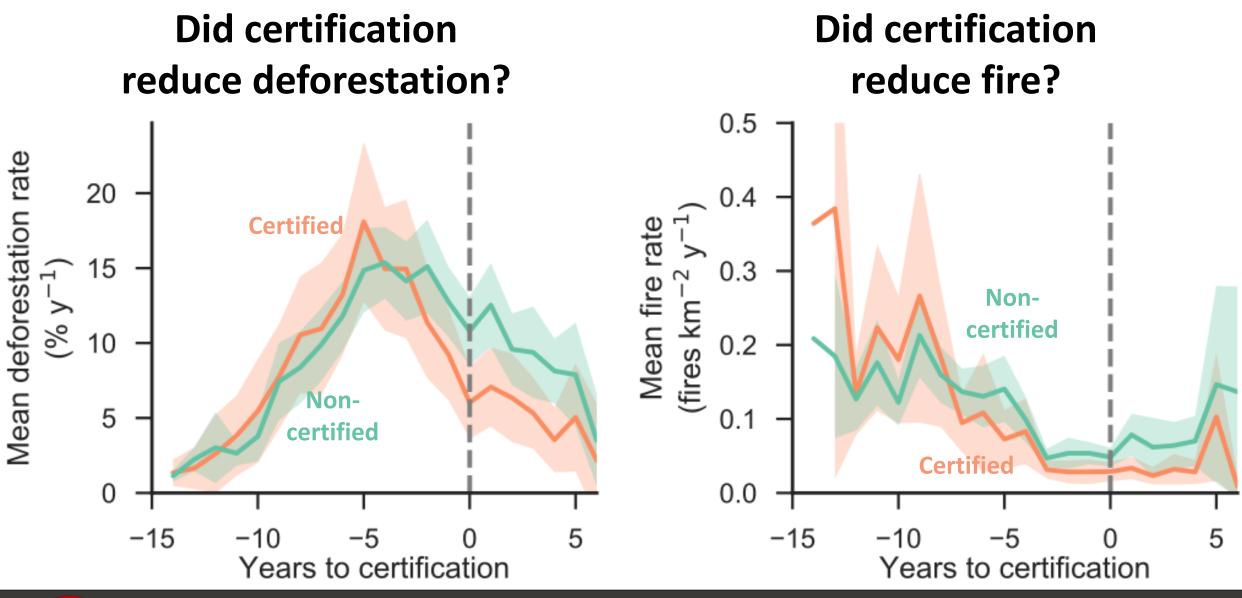


Certified plantations were **older and had less forest** in 2000 than non-certified areas





About **91 km² of deforestation and 1,810 fires** occurred in certified plantations after certification





Certification reduced deforestation rates by about 30%, but had no apparent impact on fire

Key Findings & Recommendations



- Certification led to 20 km² of "avoided" deforestation in high tree cover areas, but had no apparent effect on fire
- Certified palm oil is associated with lower recent loss of high tree cover forests and fire, mostly due to certification skewed toward plantations with few forests
- Certified palm oil is not sufficient for most corporate zero-deforestation commitments
- A remote-sensing capable definition of deforestation is needed to demonstrate "deforestation-free" certified palm oil
- Producers have few incentives to expand area of forest under their control, so positive incentives may be needed to support forest conservation
- Controlling for selection bias is critical for studies of voluntary certification



Acknowledgements





Robert Heilmayr UC Berkeley

Holly Gibbs U of Wisconsin

Praveen Noojipady

NASA Goddard



David Burns NWF



Doug Morton NASA Goddard







Claire Kremen UC Berkeley

NWF Daemeter Philip Rothrock, George Allez, Melissa Chin, Soo Chin Oi, Charlotte Smith, Petterson Vale, Jamie Touhill, Ian Schelly, Masrudy Omri, Sawit Watch, Sita Ekaputri, RSPO Secretariat

