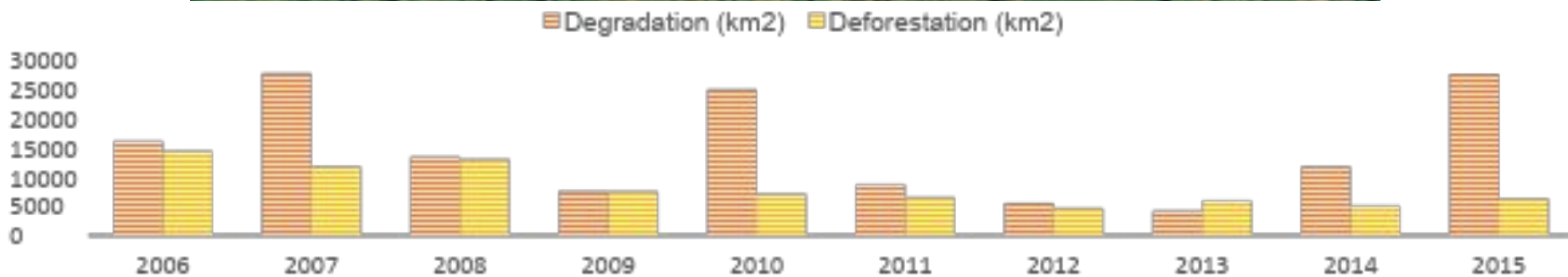


# **Degradation Trajectories in the Amazon and their Contribution for Greenhouse Gases Emissions**

Talita Assis, Ana Paula Aguiar, Celso von Randow\*



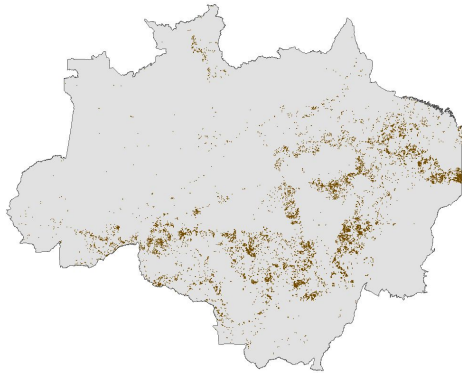
- ***Clear cut trajectory:*** degradation event followed by clear cut deforestation.
- ***Degradation trajectory:*** degradation recurrence (alternate or consecutive events).
- ***Regeneration trajectory:*** (one-time) isolated degradation event.



# Results: Trajectories

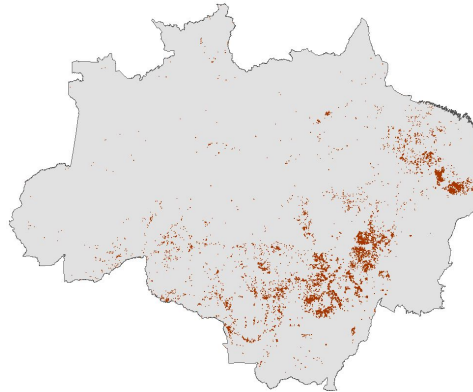
### Clear cut trajectory

Clear Cut Trajectory 2006 - 2013



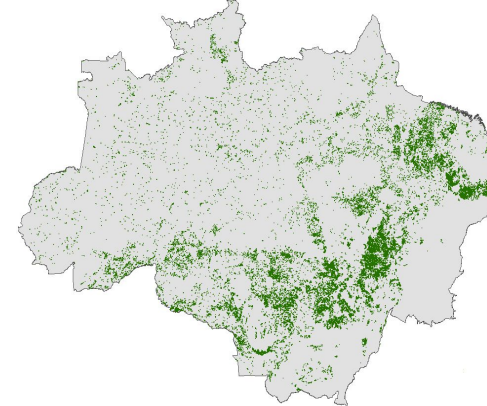
### Degradation trajectory

Degradation Trajectory 2006 - 2013

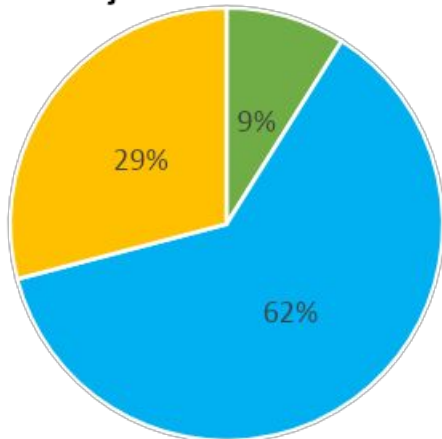


### Regeneration trajectory

Regeneration Trajectory 2006 - 2013

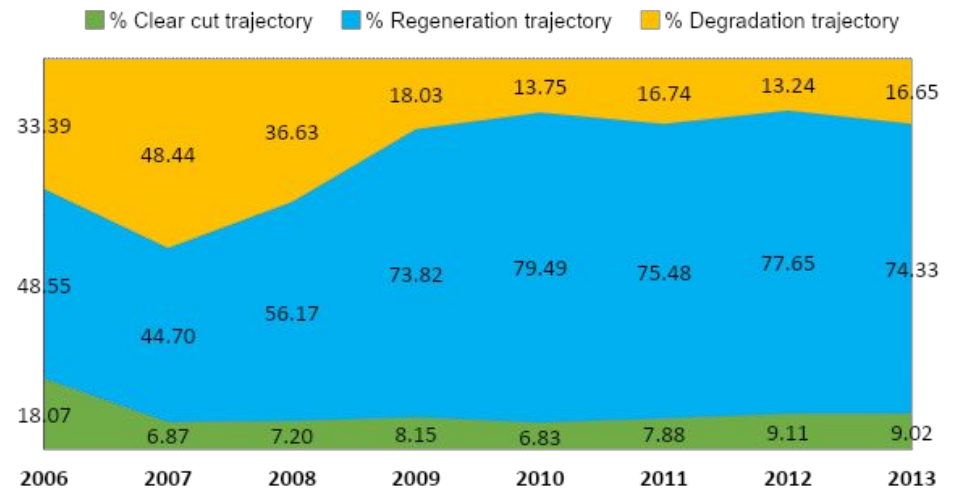


### Trajectories 2006-2013



■ % Clear cut trajectory   
 ■ % Regeneration trajectory   
 ■ % Degradation trajectory

### Evolution of trajectories over the years



Year	CO2 Emissions from deforestation	CO2 Emissions from secondary vegetation cut	CO2 Uptake from secondary vegetation growth	CO2 Emissions from degradation	CO2 Uptake from degraded forest recovery	Gross Emissions	CO2 Balance (deforestation, secondary vegetation and degradation)
2006	926	86	-149	314	-32	1326	1145
2007	805	89	-156	506	-207	1400	1037
2008	749	93	-161	194	-248	1036	627
2009	635	98	-164	160	-208	893	521
2010	557	103	-166	403	-191	1063	706
2011	495	107	-168	161	-240	763	355
2012	416	112	-169	100	-221	628	238
2013	385	116	-170	80	-188	581	223
2014	351	121	-172	186	-169	658	317
<b>Total</b>							
<b>2006-2014</b>	<b>5319</b>	<b>925</b>	<b>-1475</b>	<b>2104</b>	<b>-1704</b>	<b>8348</b>	<b>5169</b>

\* Brazilian Amazon

Terms computed in Mt CO2 / year



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