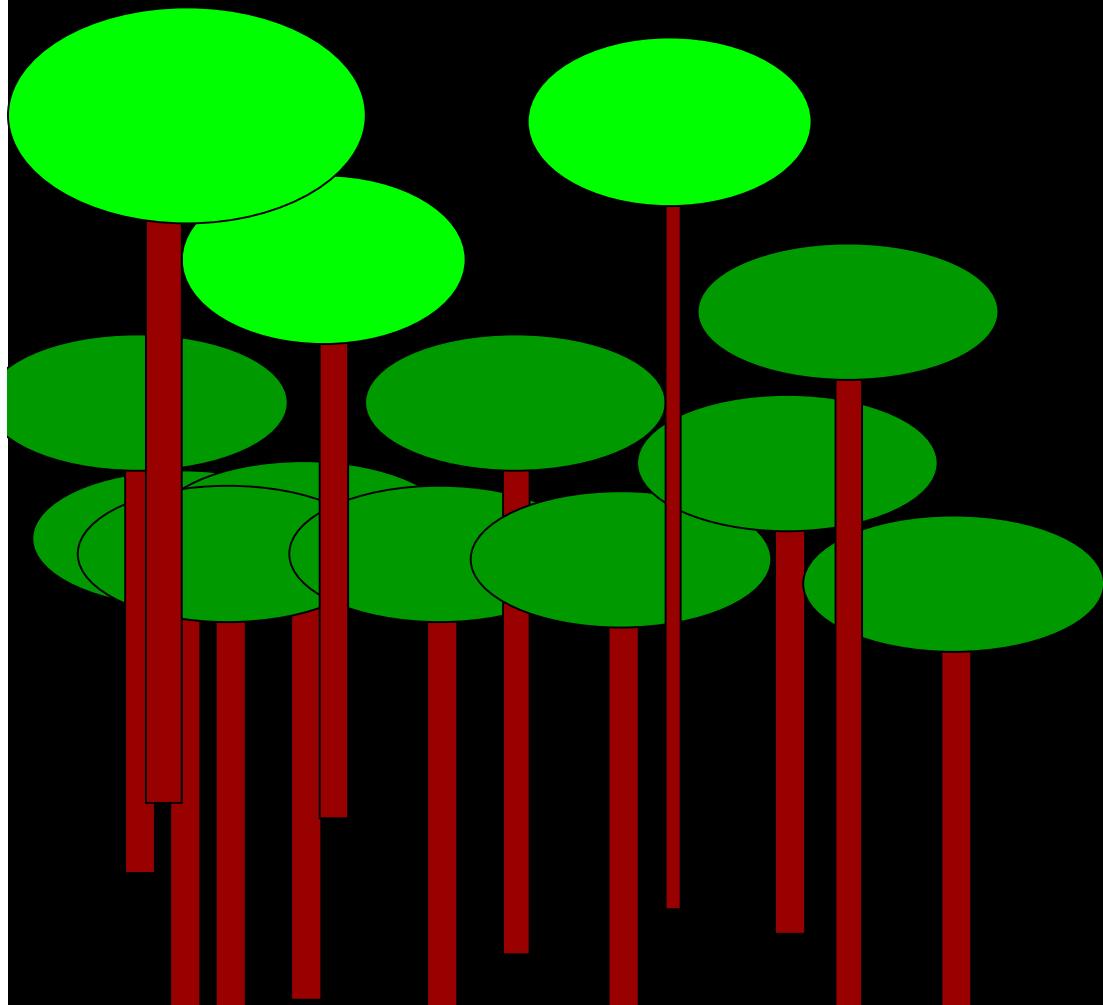


## *Hypothesis*

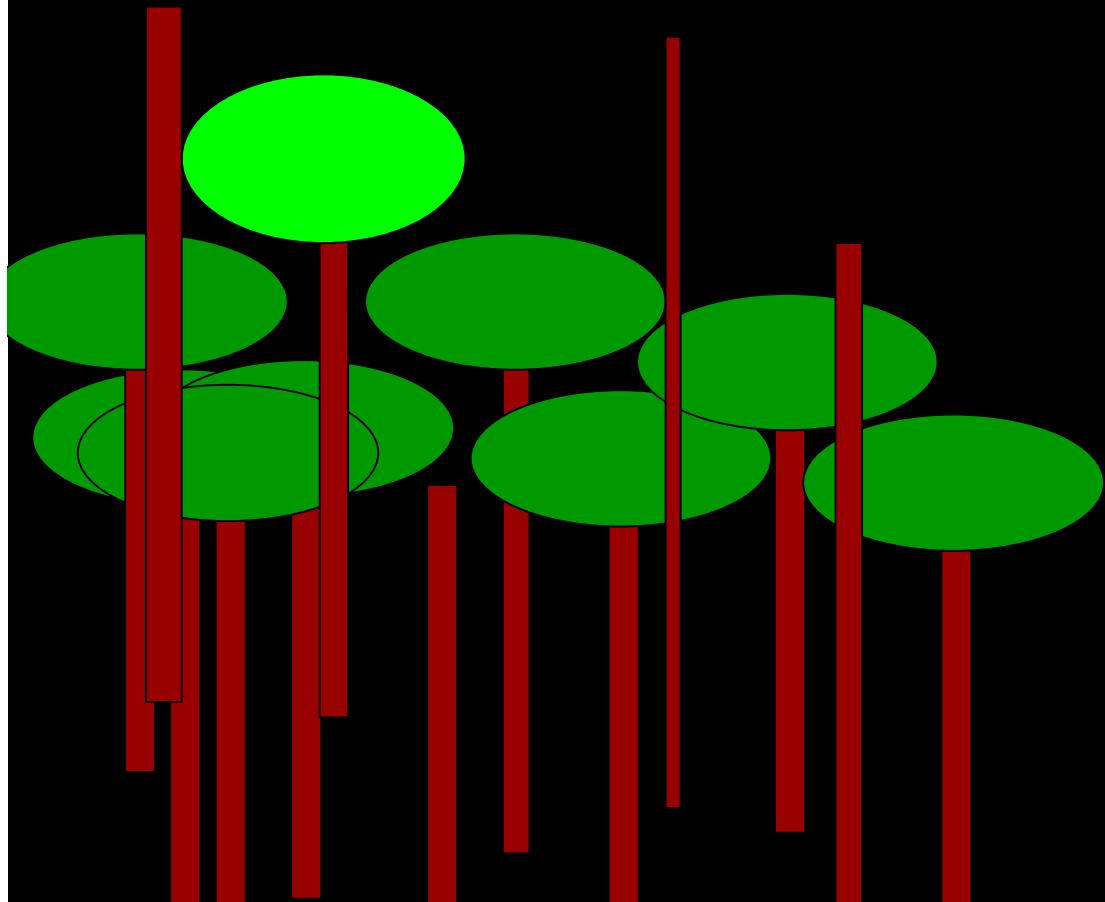
Leaves of emergent trees have less chlorophyll than the others;



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Leaves of emergent trees have less chlorophyll than the others;

In the drought season, observed a bigger fall;



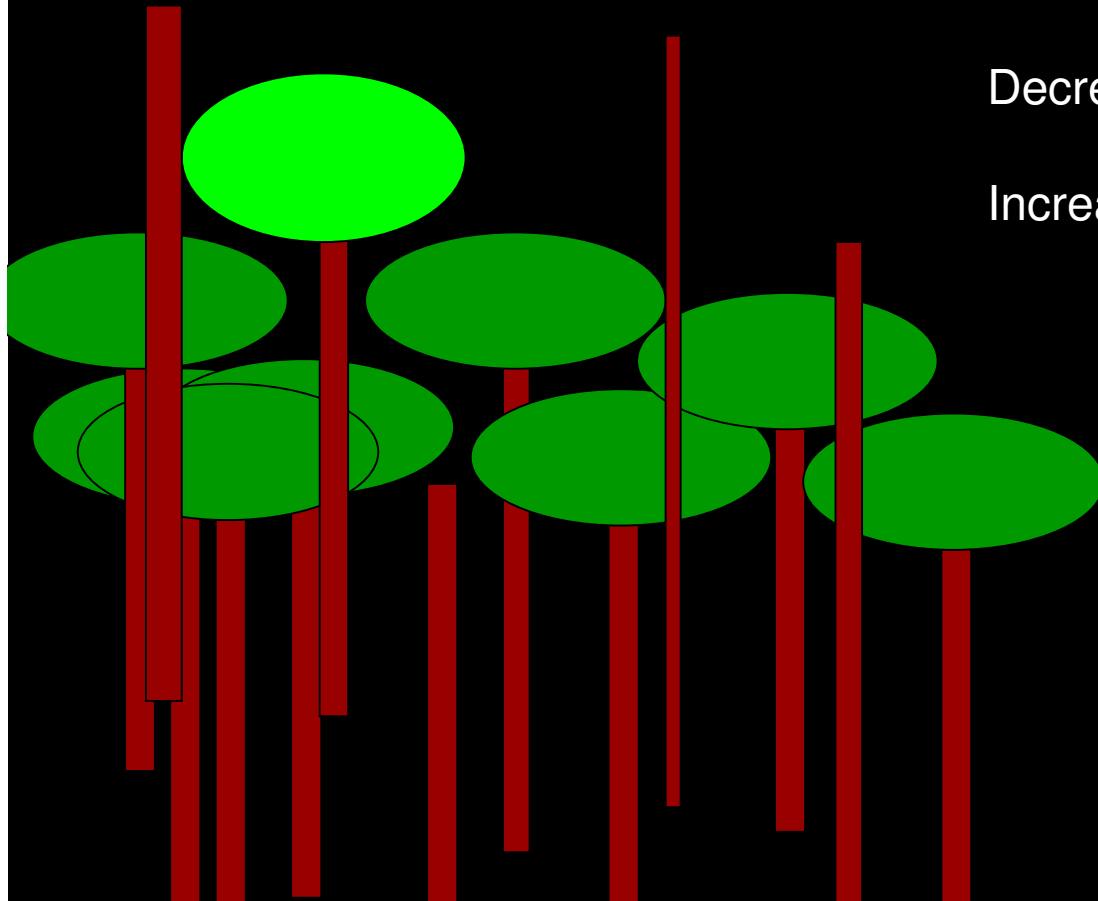
## *Hypothesis*

Leaves of emergent trees have less chlorophyll than the others;

In the drought season, observed a bigger fall;

Decrease of roughness = less shade;

Increase in the signal of the VIs.



## *Preliminary Conclusions*

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- . VIs were sensitive to detect canopy stress in the 2005 drought:  
**Red and Green anomalies of NDWI, NDVI and EVI presented negative relationship with rainfall, and positive relationship with radiation;**

## *Preliminary Conclusions*

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# Preliminary Conclusions

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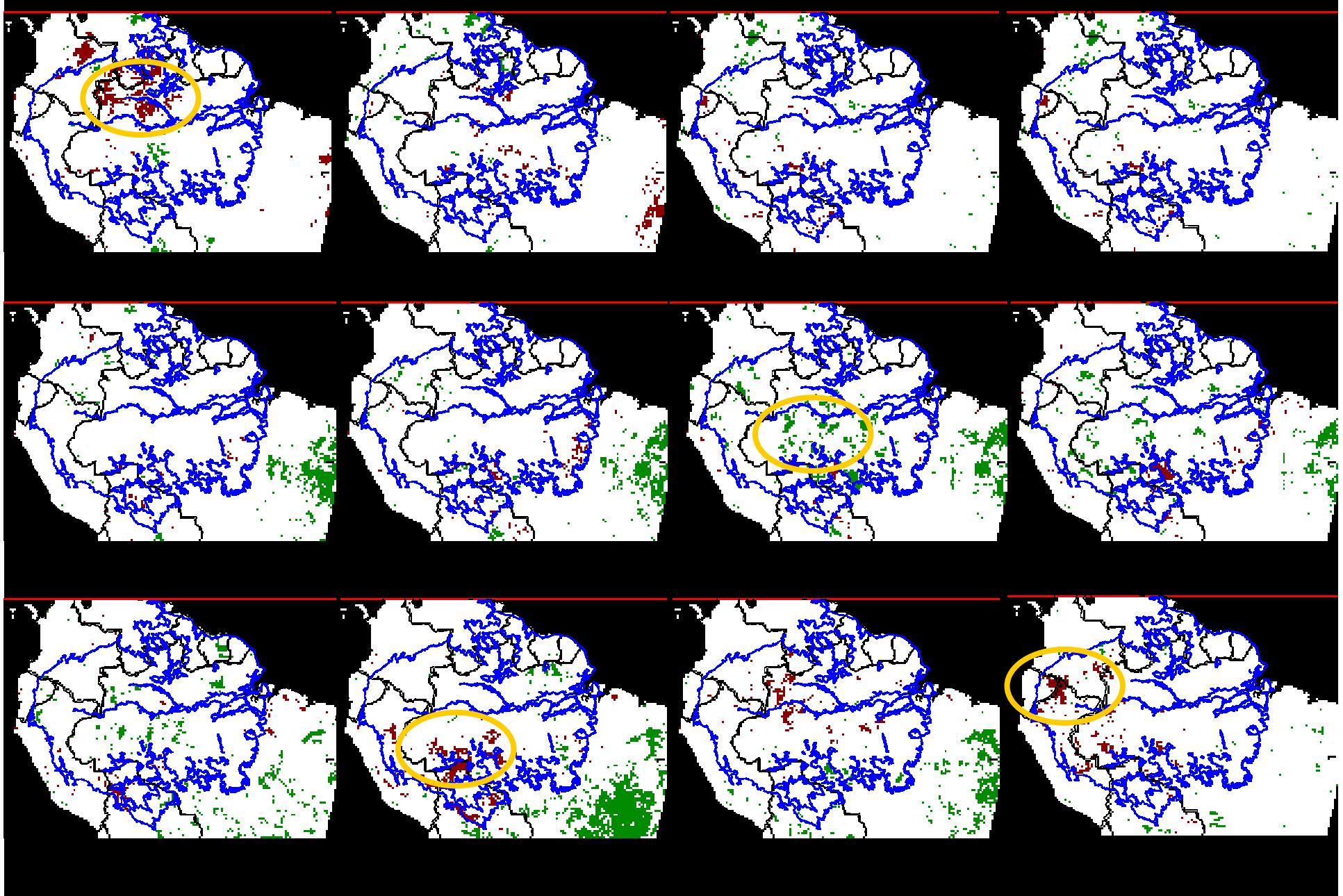
- . VIs were sensitive to detect canopy stress in the 2005 drought:  
**Red and Green anomalies of NDWI, NDVI and EVI presented negative relationship with rainfall, and positive relationship with radiation;**
- . **VIs also presented a positive relationship with Litterfall data, Suggesting that changes in the canopy structure affects Vis;**
- . **The spatial analysis showed VIs anomaly in areas that were not directly affected by the meteorological water deficit, pointing out more susceptible areas of forest physiognomies to a drought event;**
- . **We would like to test the litterfall data for others sites...**



Liana Anderson would like to thank the *Brazilian* government for  
the *PhD* Scholarship and *LBA* for the travel support.

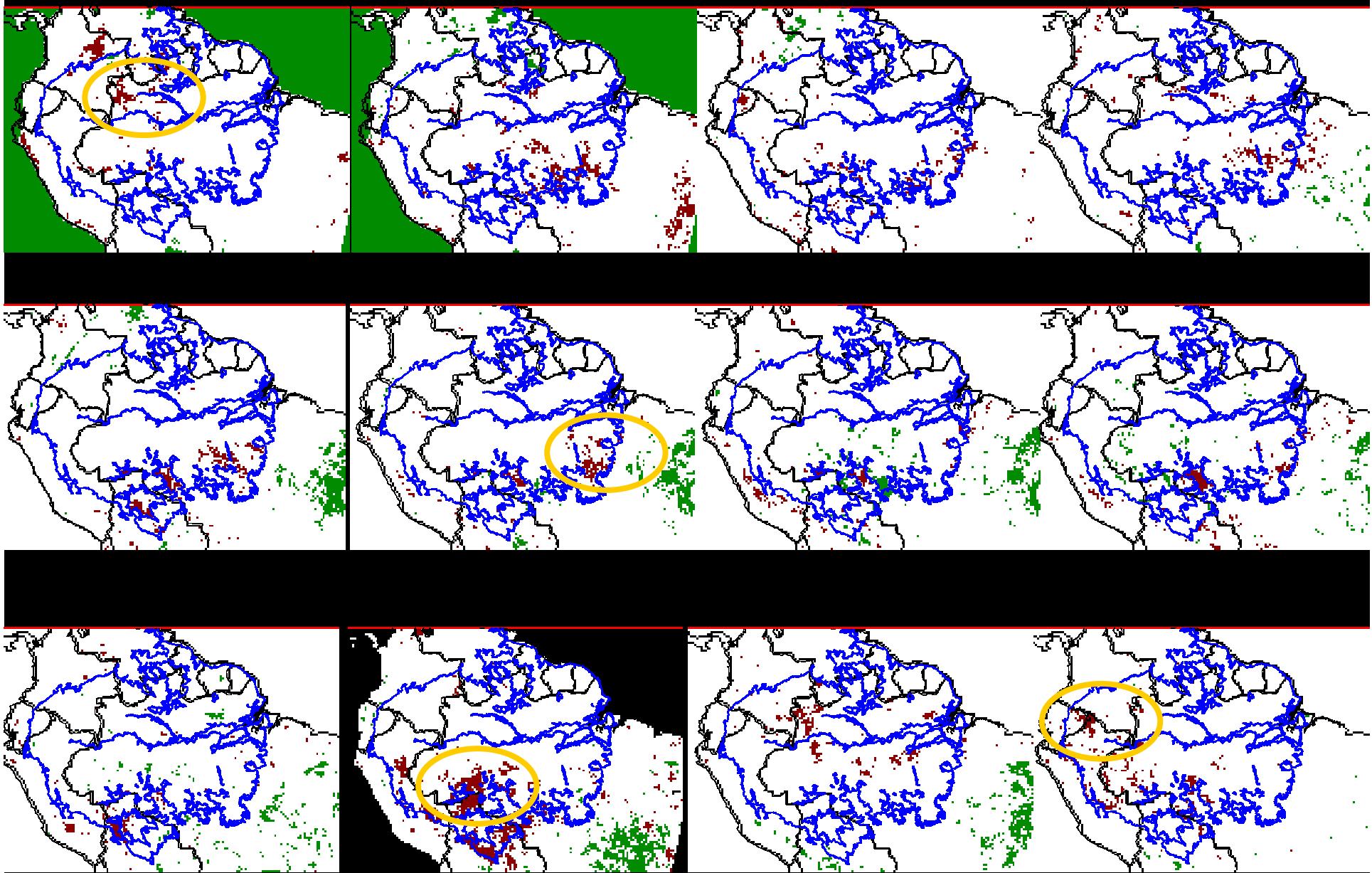
# **Results: NDWI ANOMALY 2006**

$0.25^{\circ}$



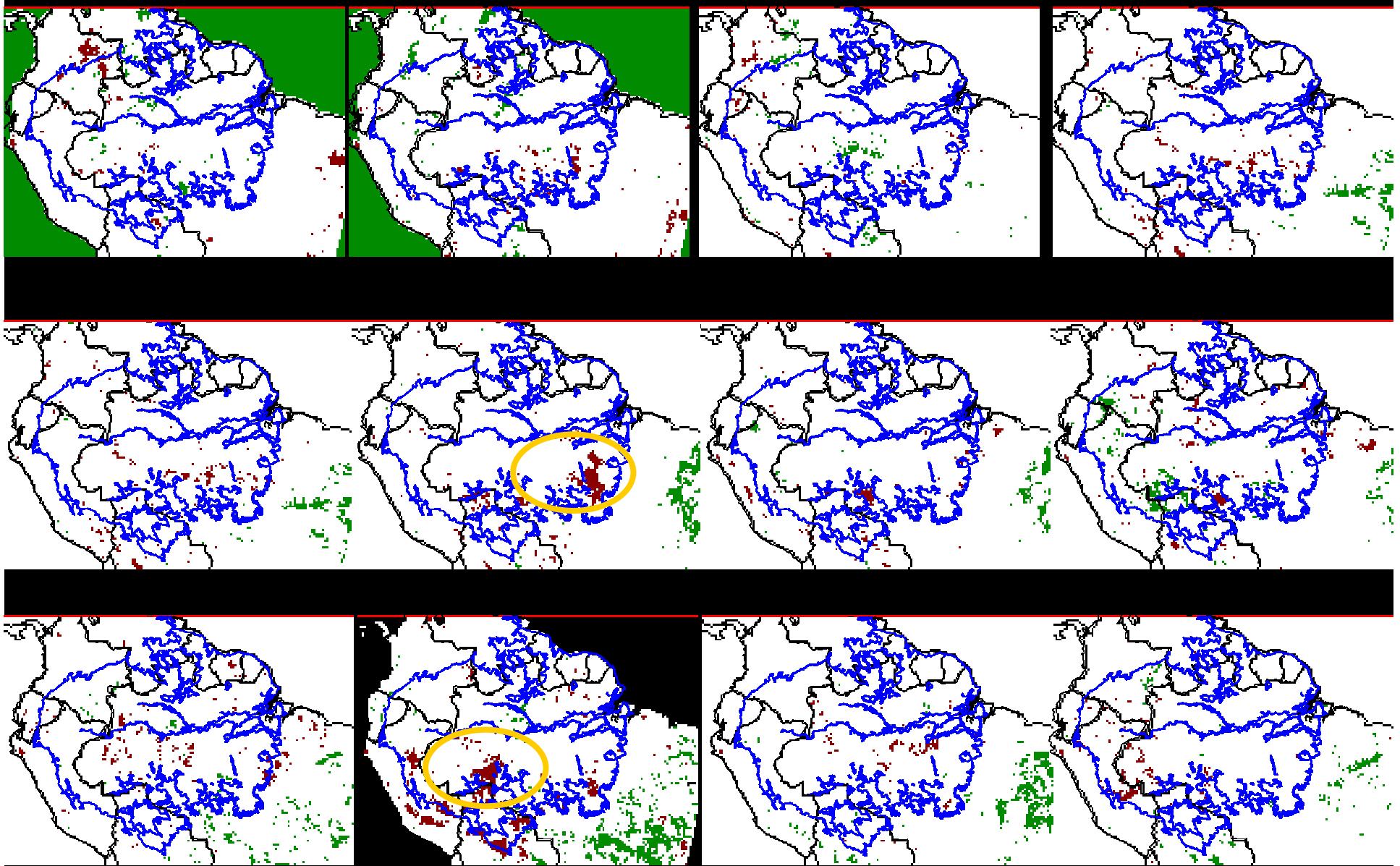
# **Results: NDVI ANOMALY 2006**

$0.25^\circ$



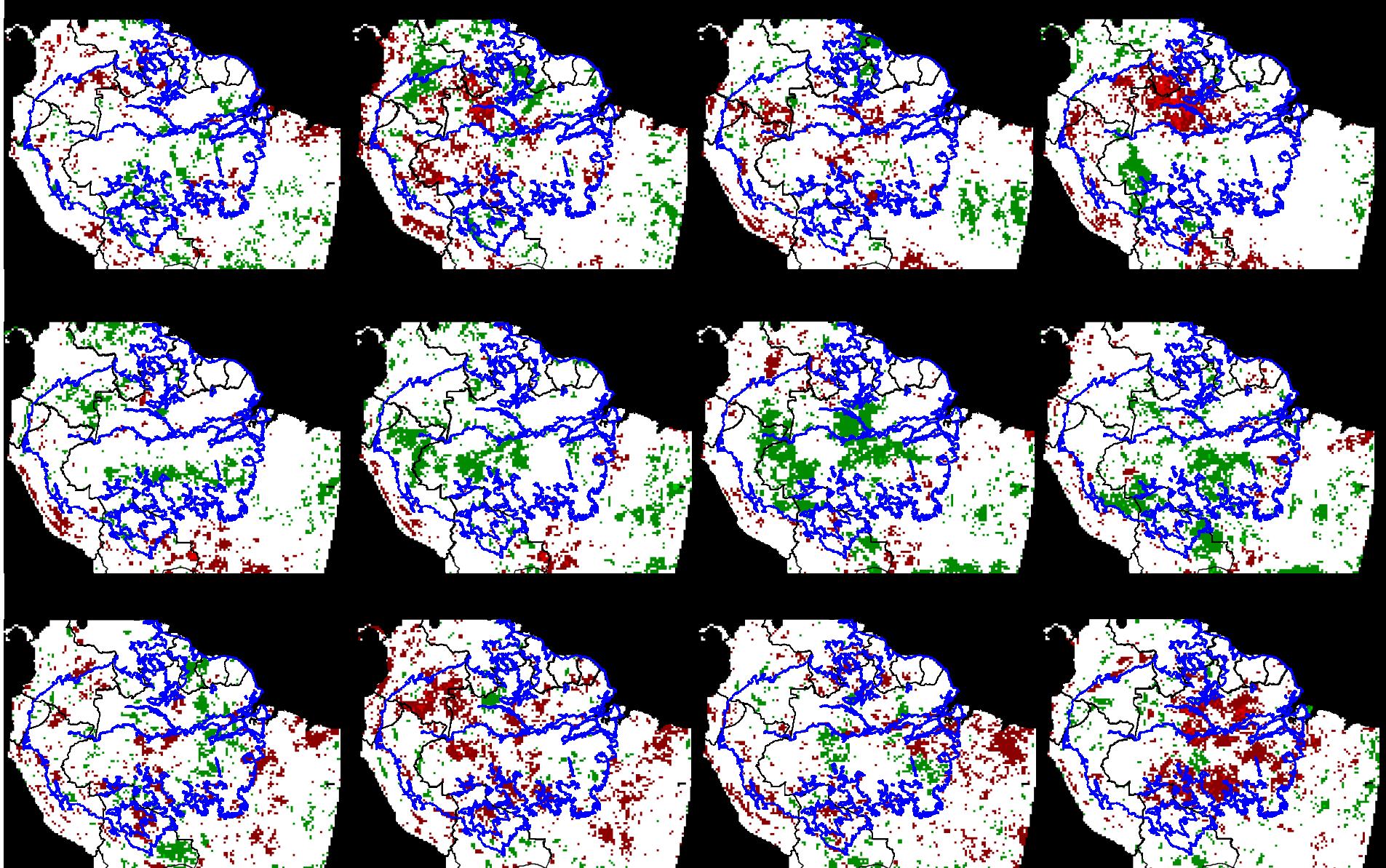
# *Results: EVI ANOMALY 2006*

$0.25^{\circ}$



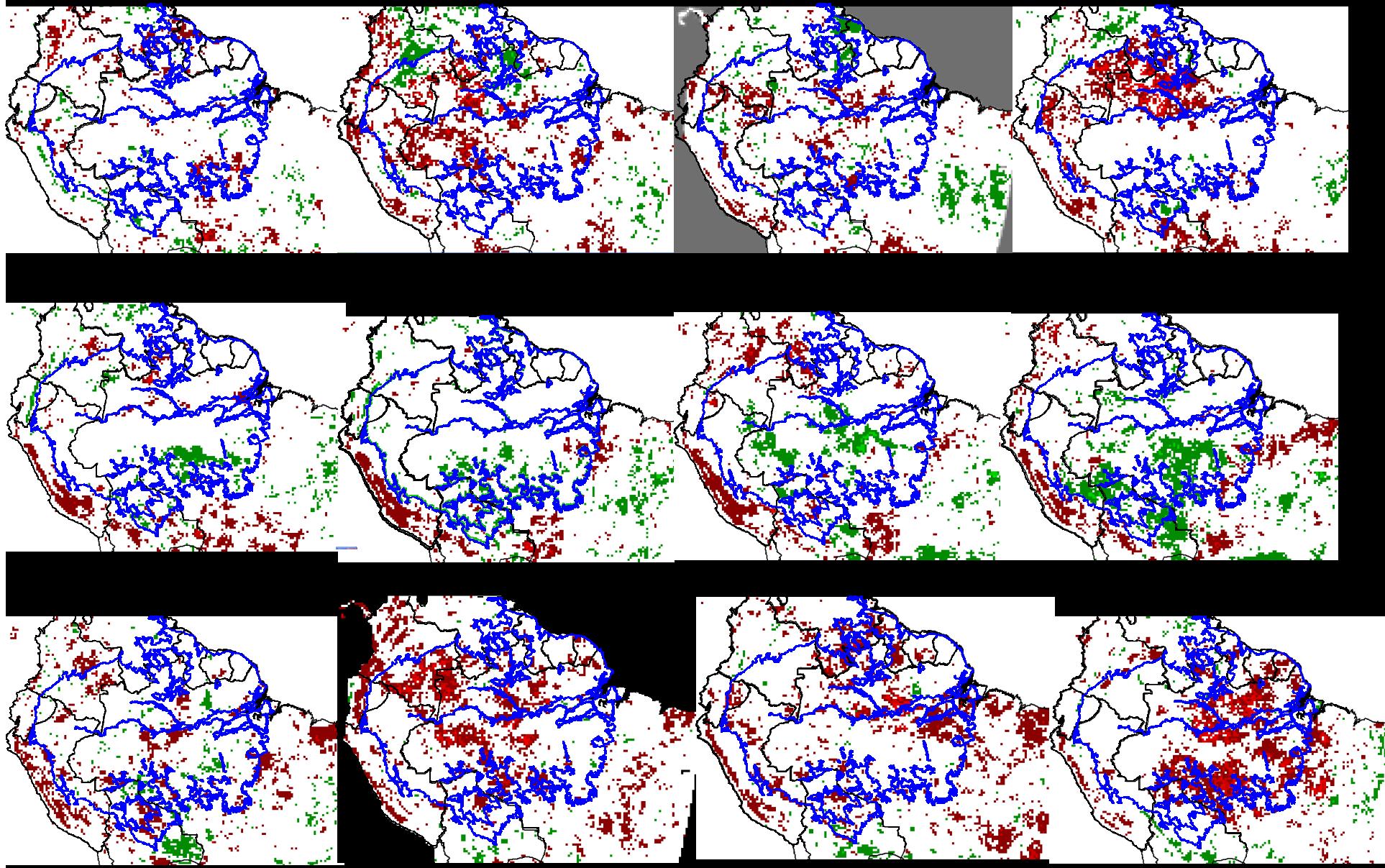
# **Results: NDWI ANOMALY 2005**

$0.25^{\circ}$

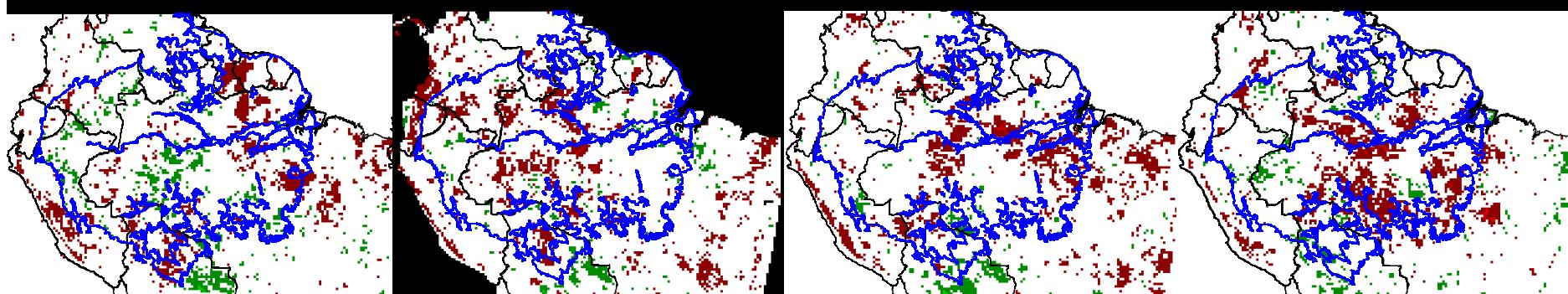
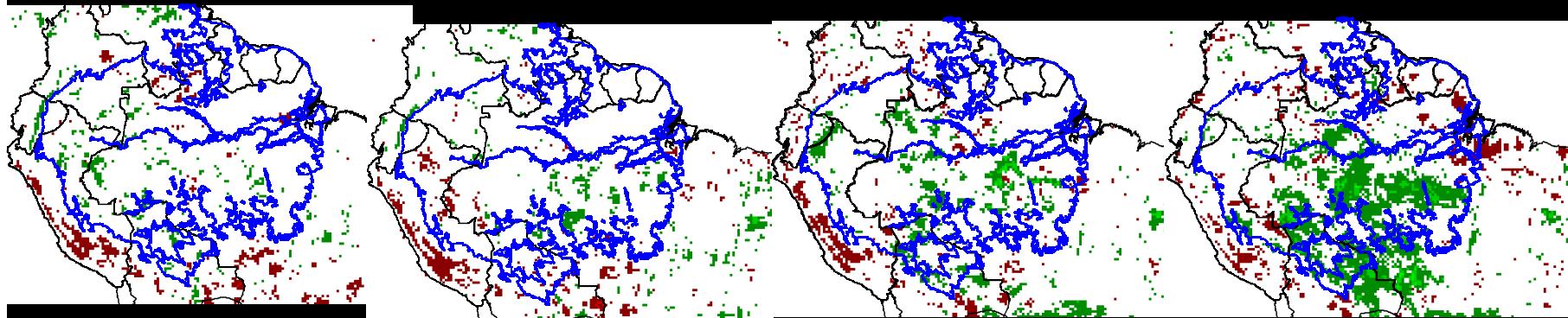
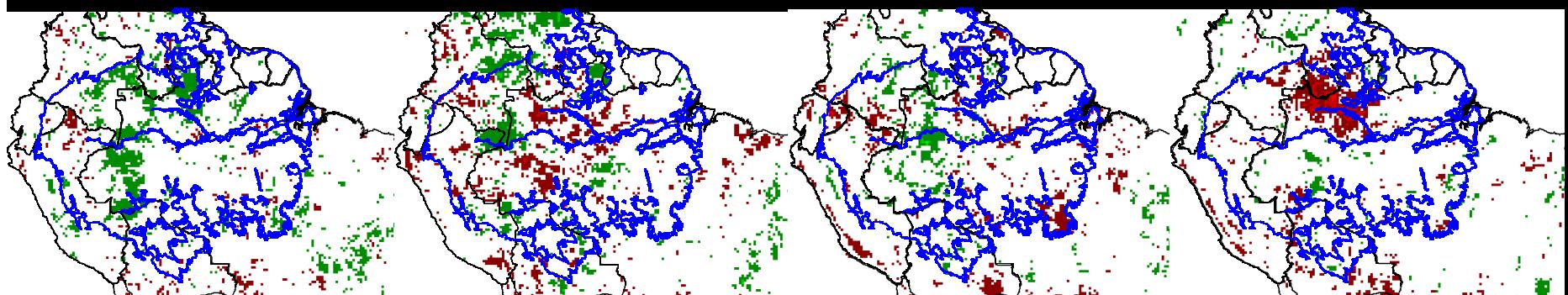


# **Results: NDVI ANOMALY 2005**

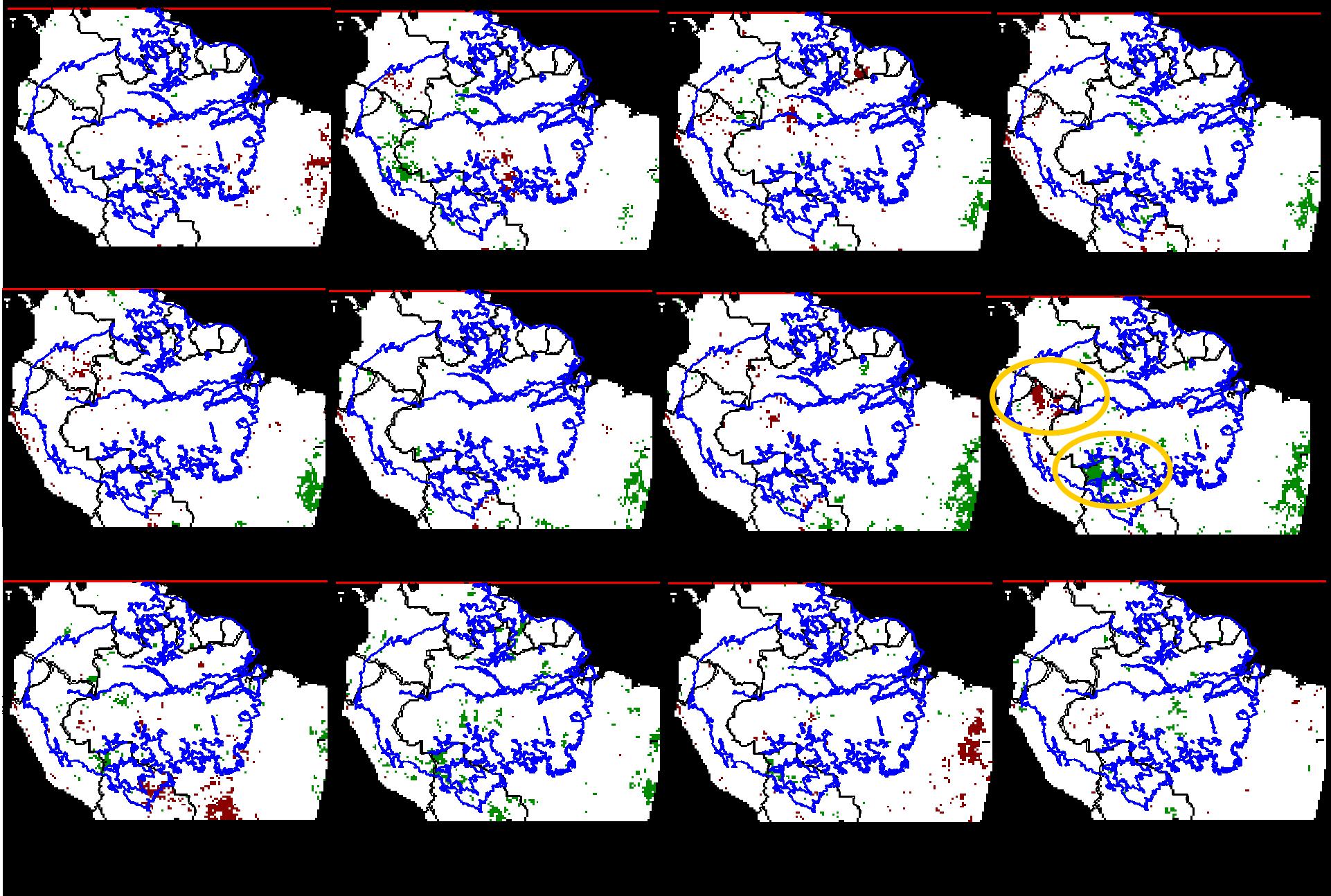
$0.25^{\circ}$



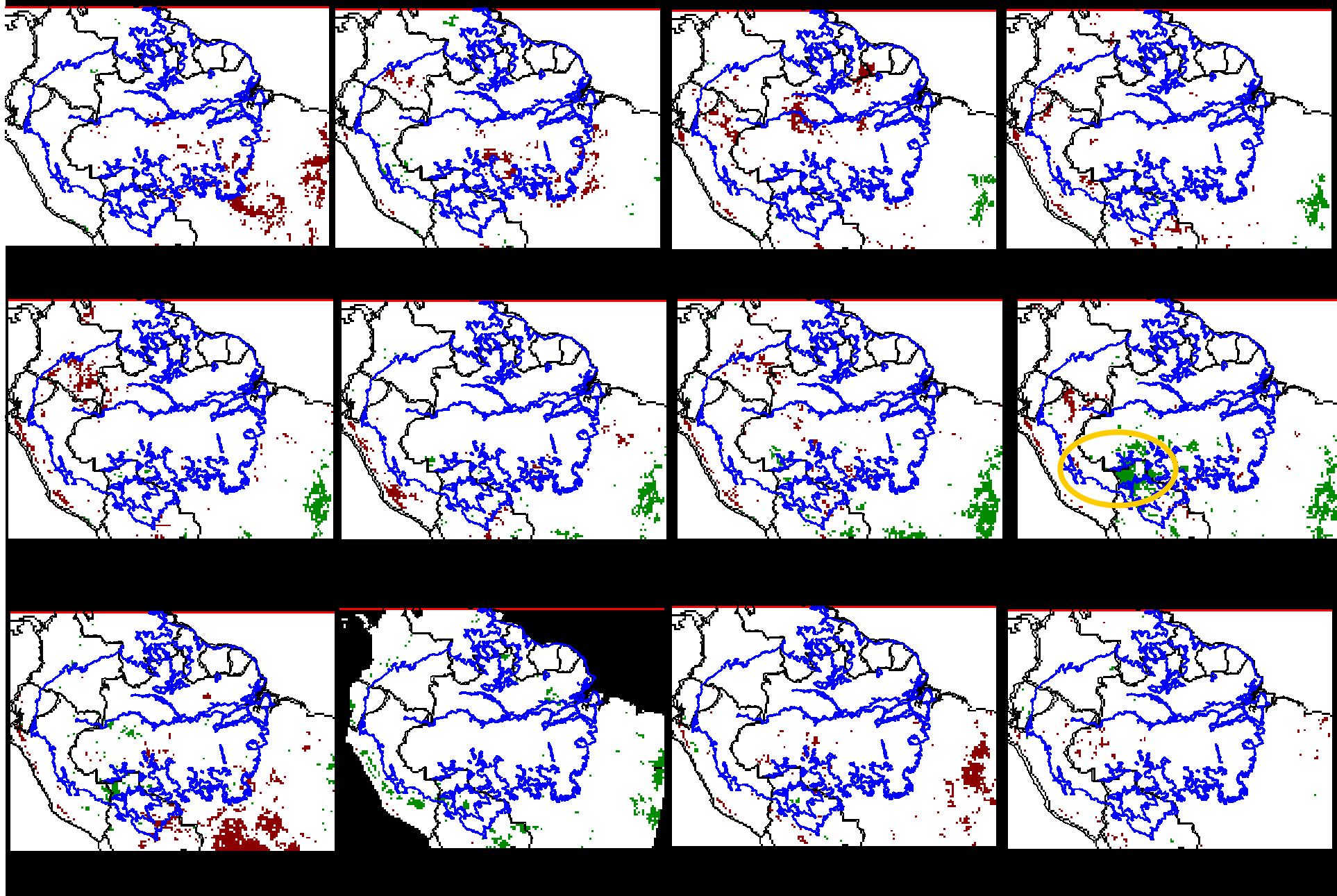
# *Results: EVI ANOMALY 2005 0.25°*



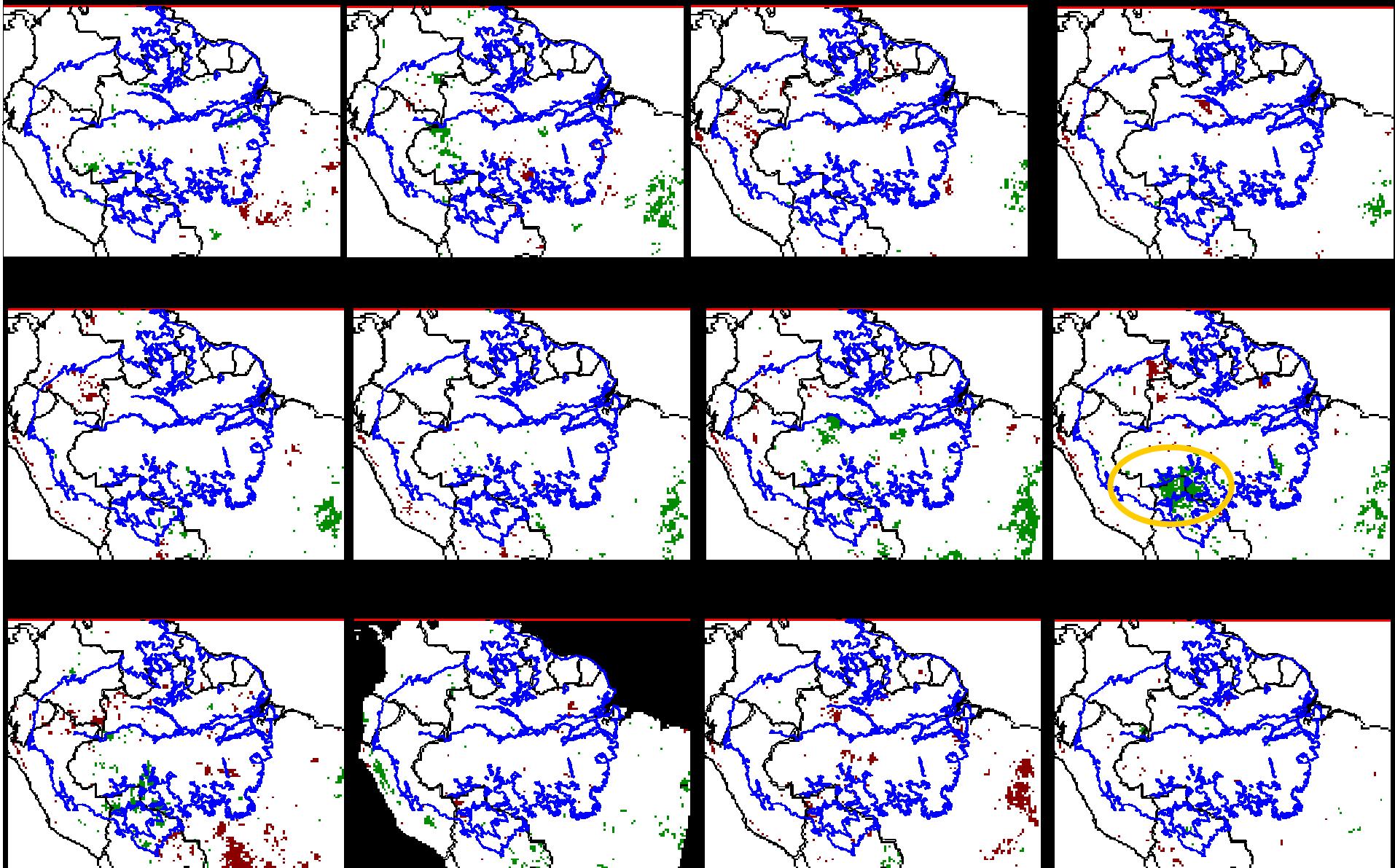
# *Results: NDWI ANOMALY 2004 0.25°*



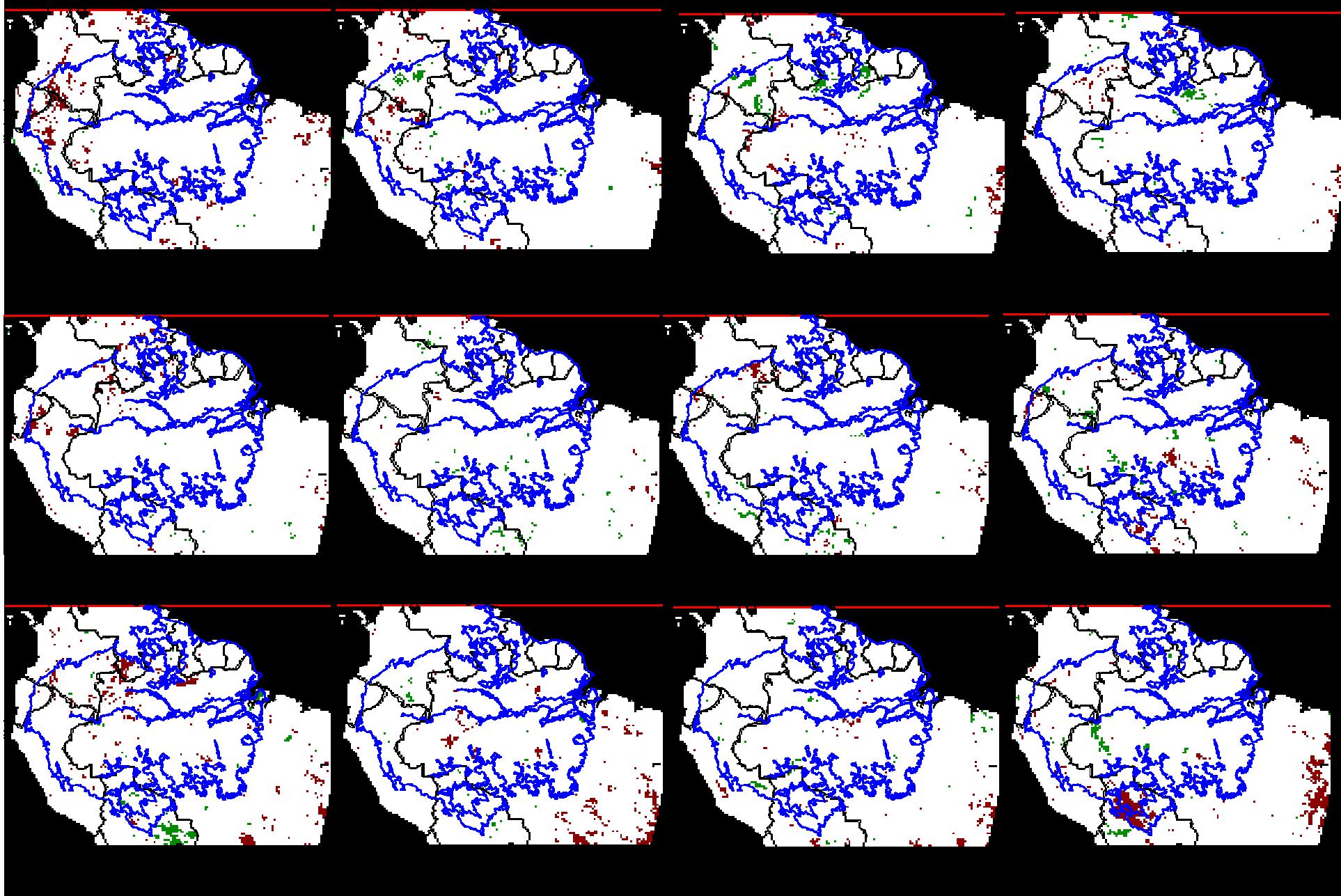
# **Results: NDVI ANOMALY 2004 0.25°**



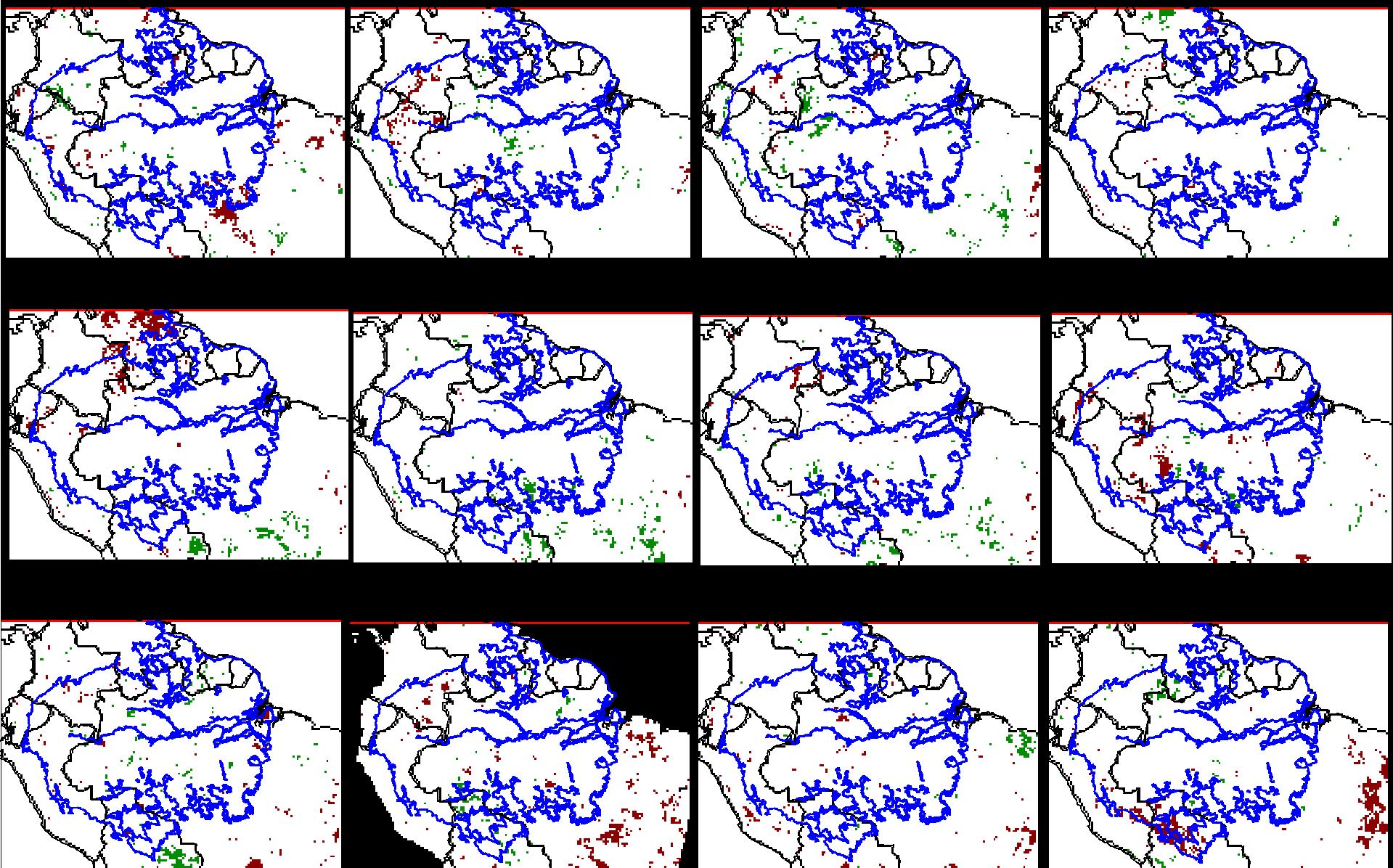
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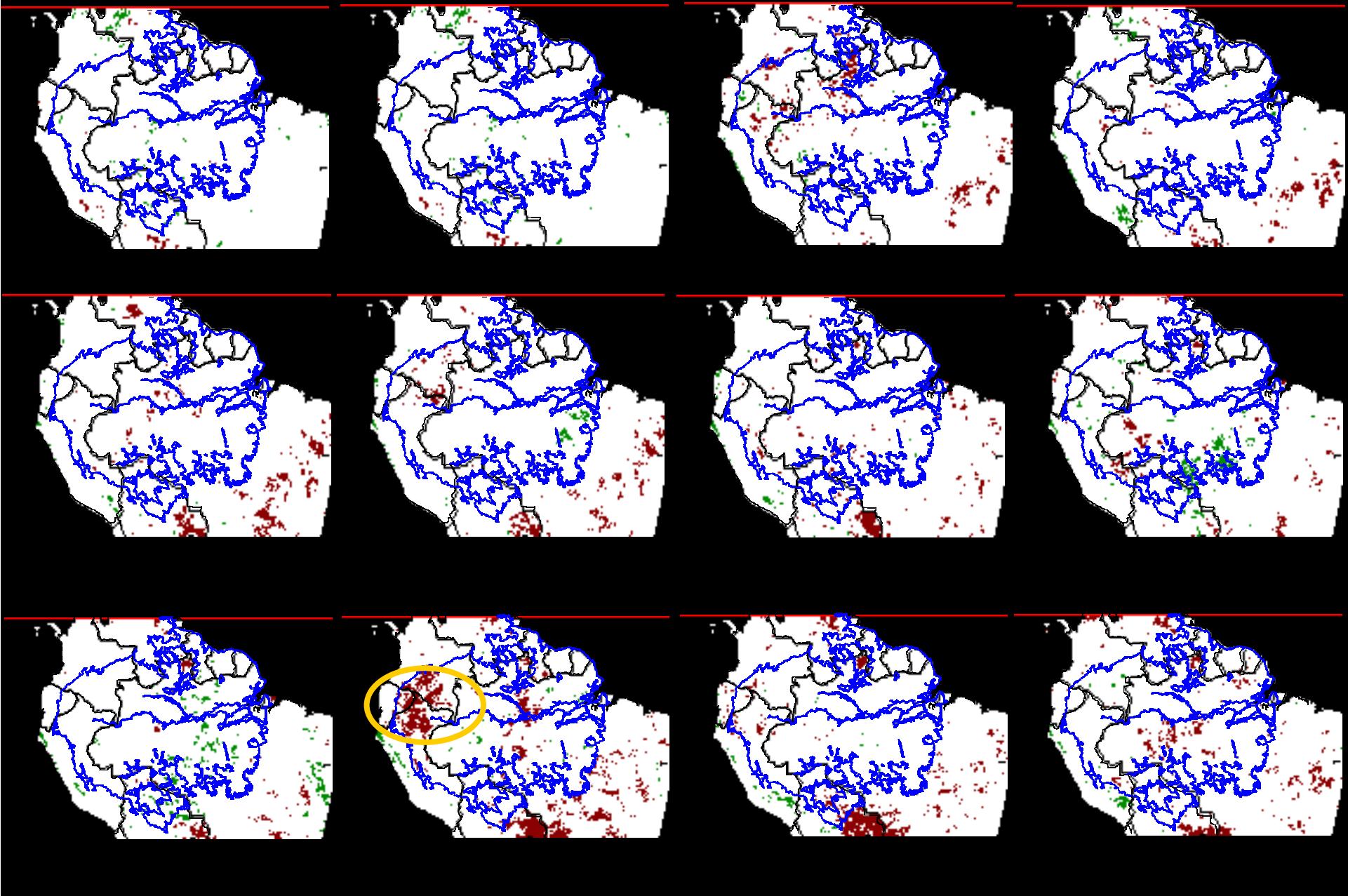
# *Results: NDWI ANOMALY 2003 0.25°*



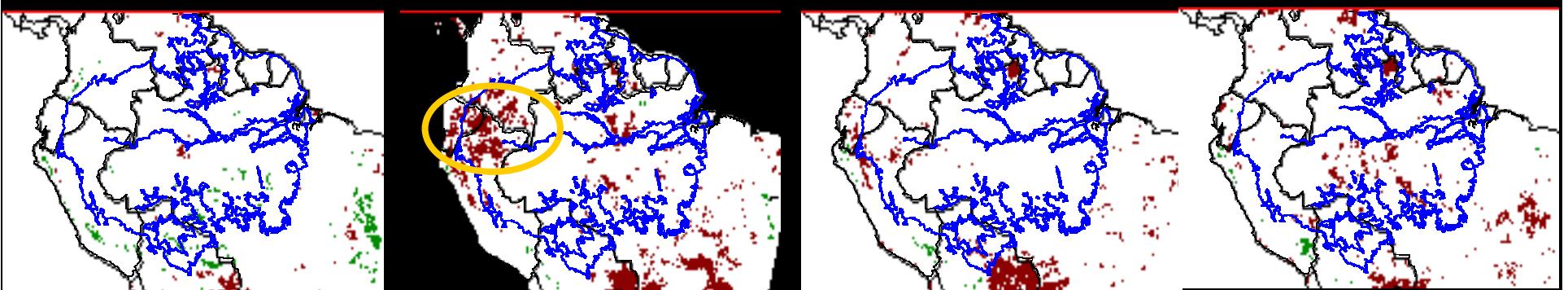
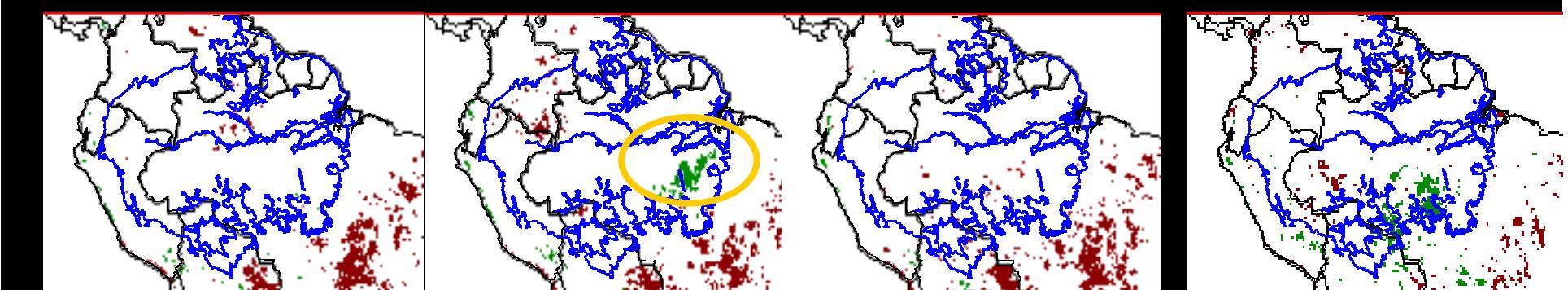
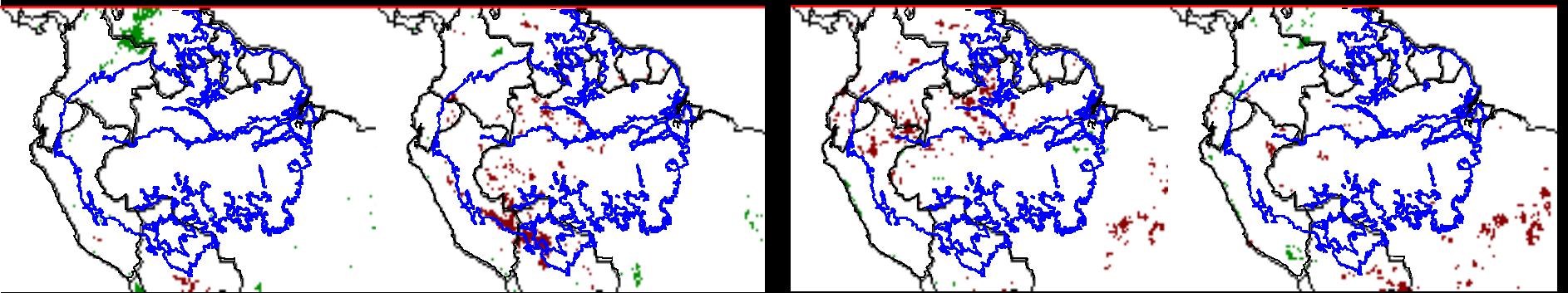
# *Results: EVI ANOMALY 2003 0.25°*



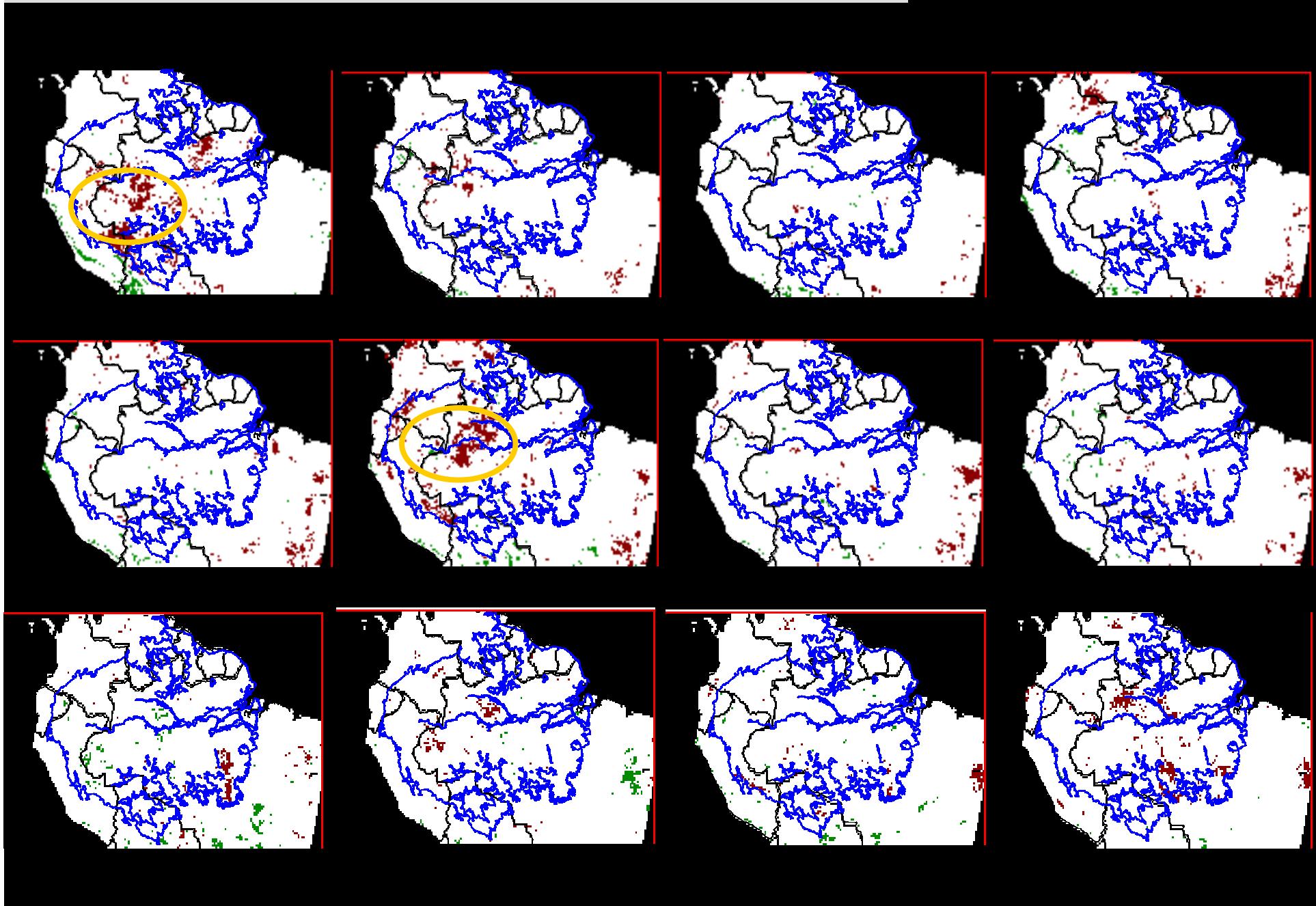
# **Results: NDWI ANOMALY 2002 0.25°**



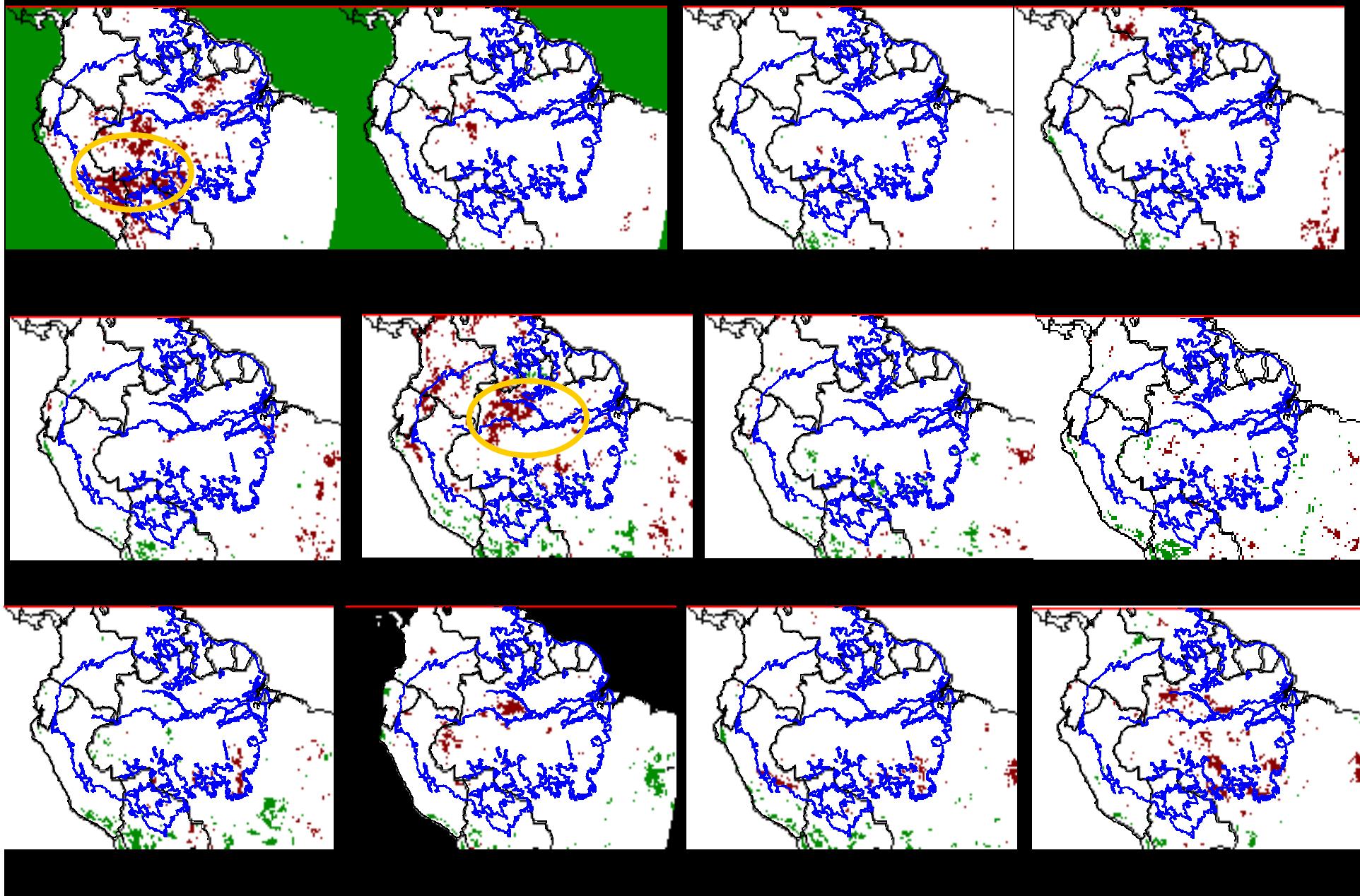
# **Results: NDVI ANOMALY 2002 0.25°**



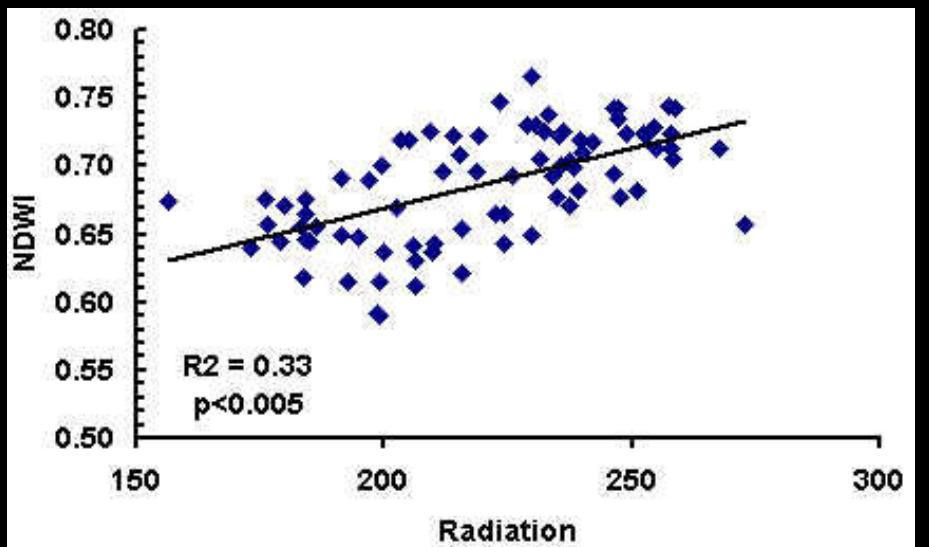
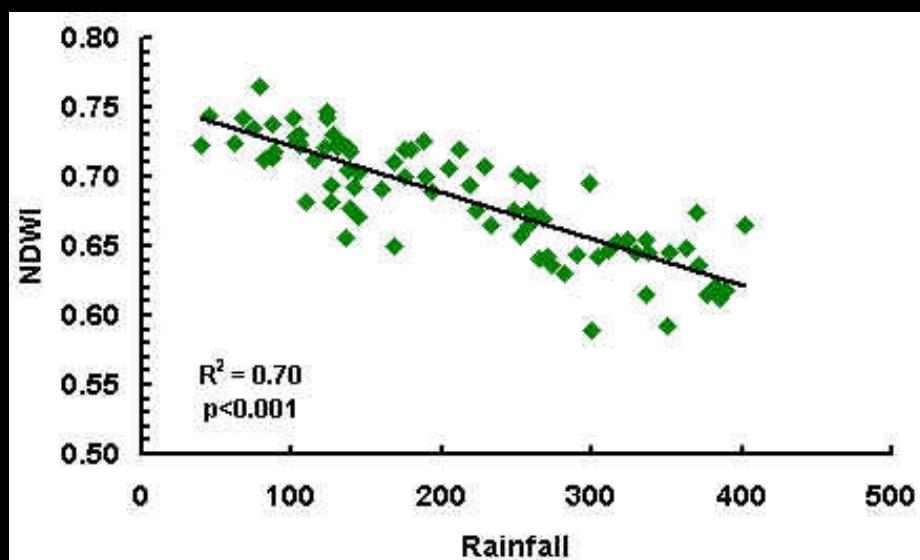
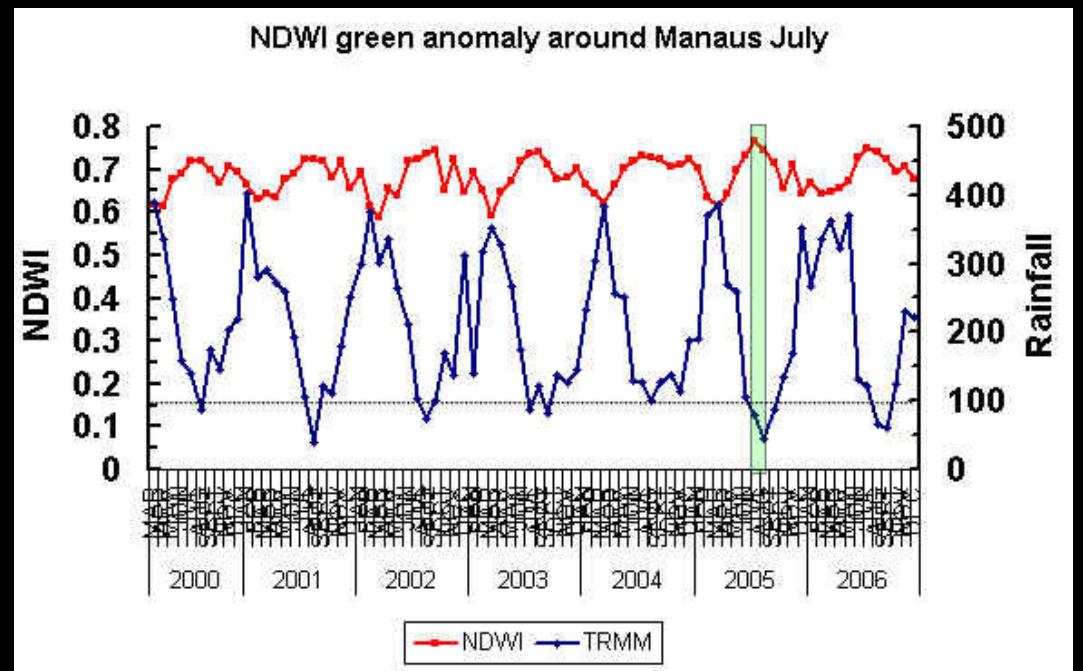
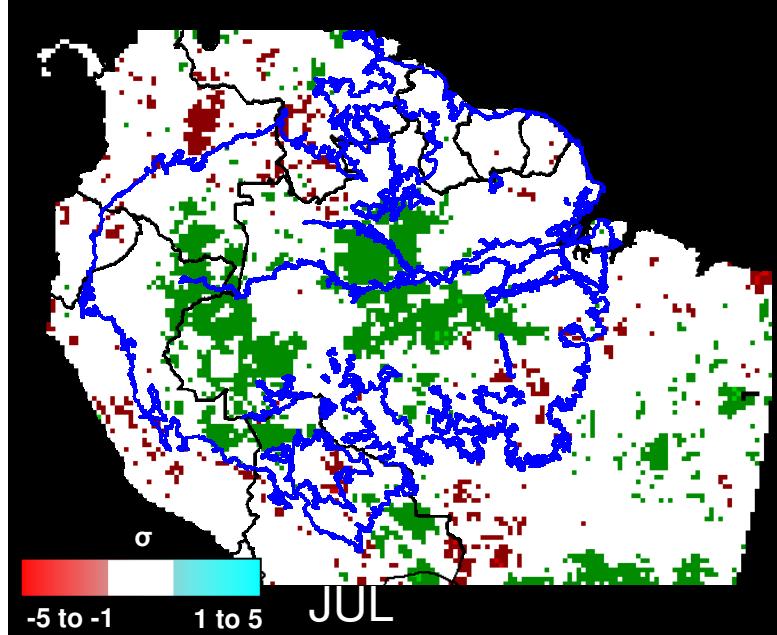
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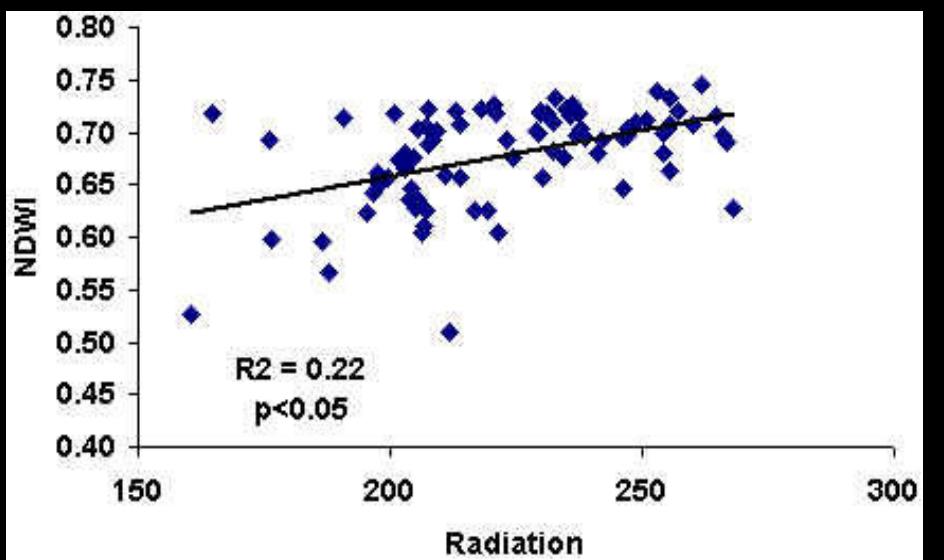
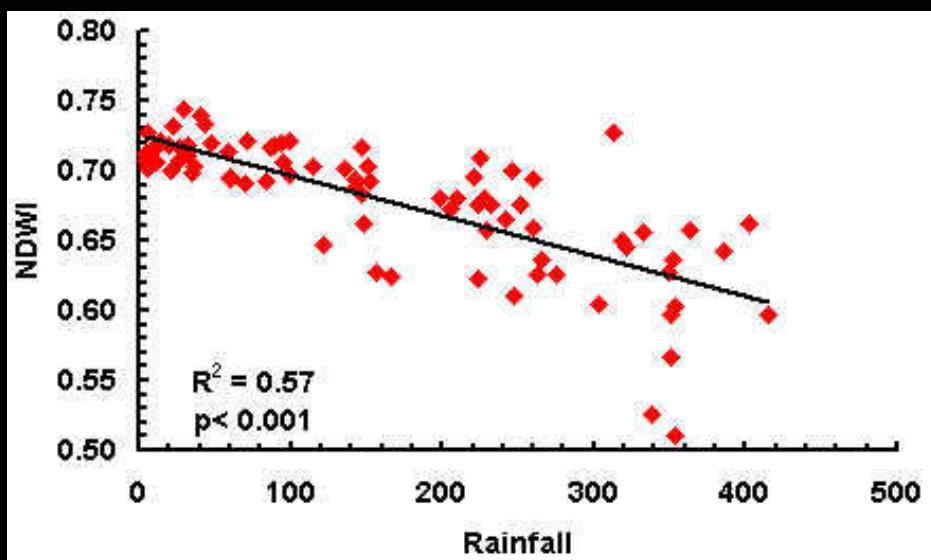
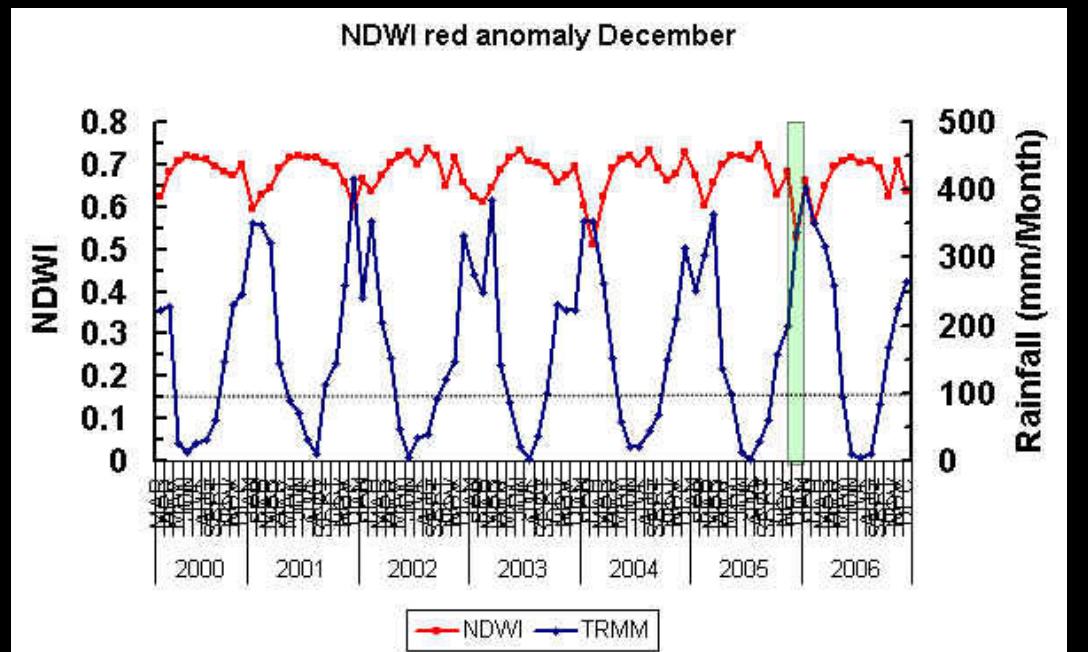
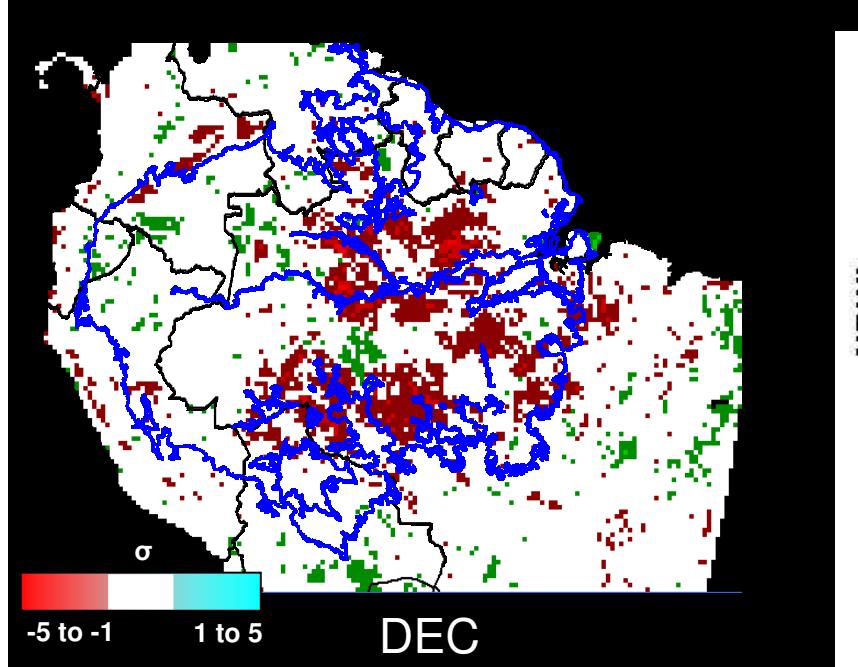
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## Results: Remote Sensing data: NDWI

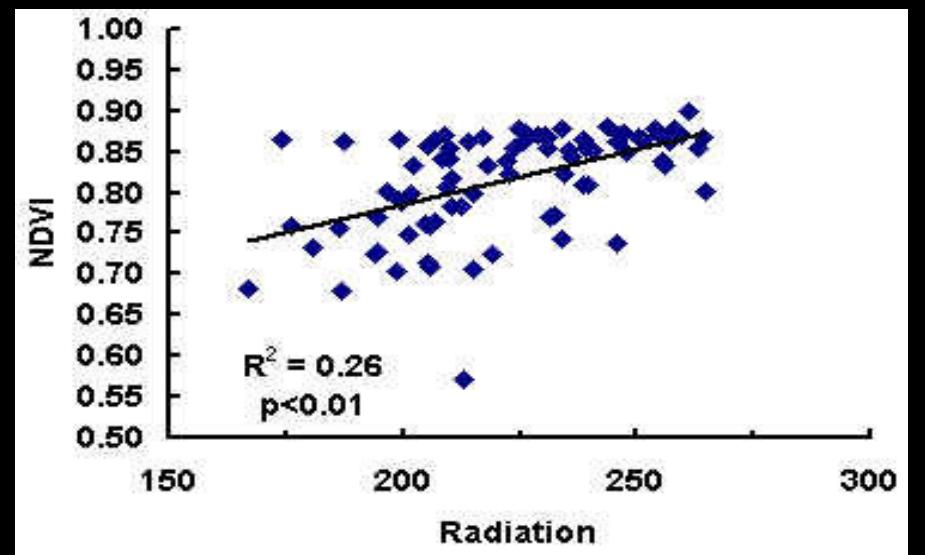
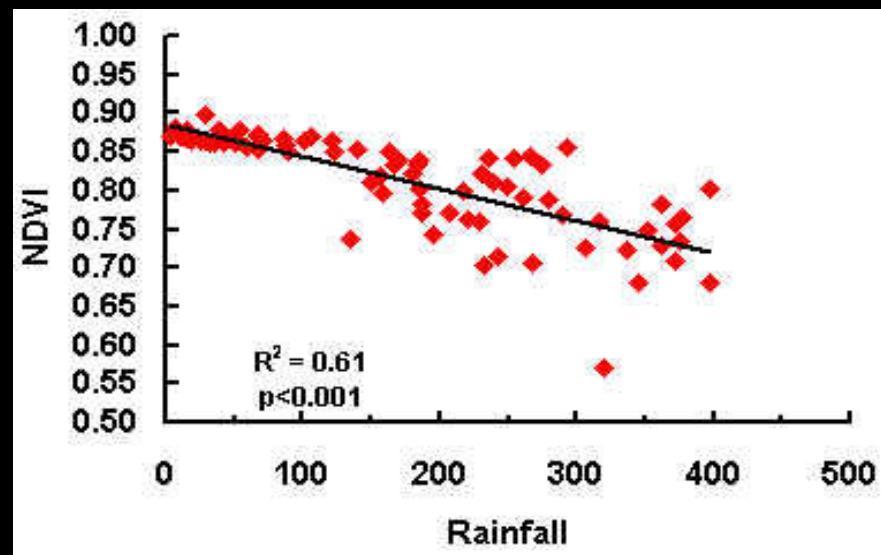
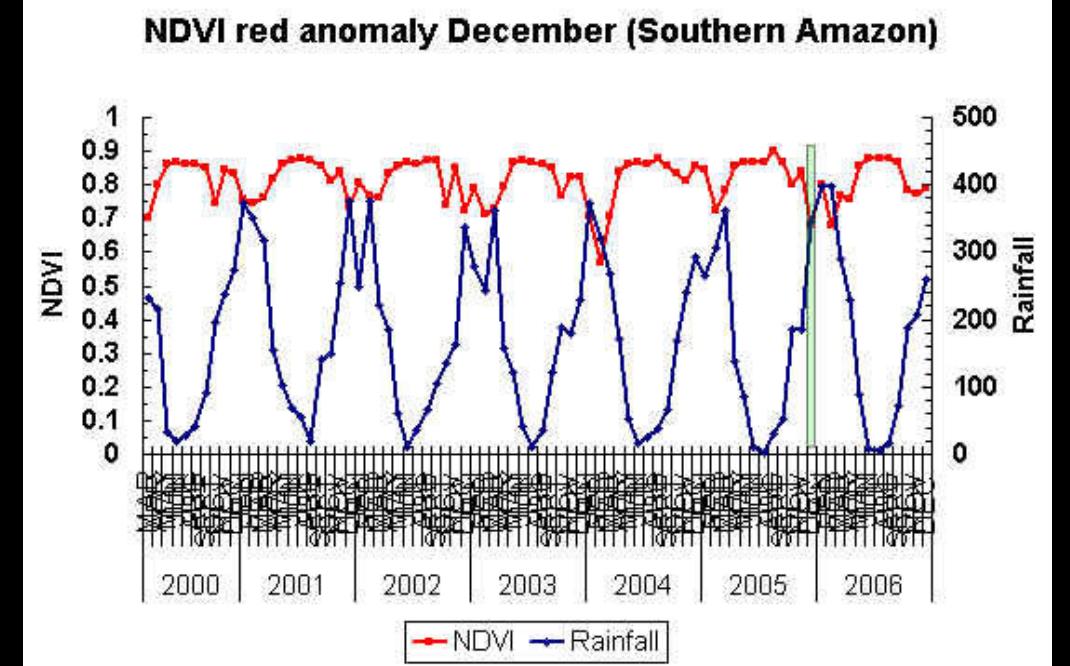
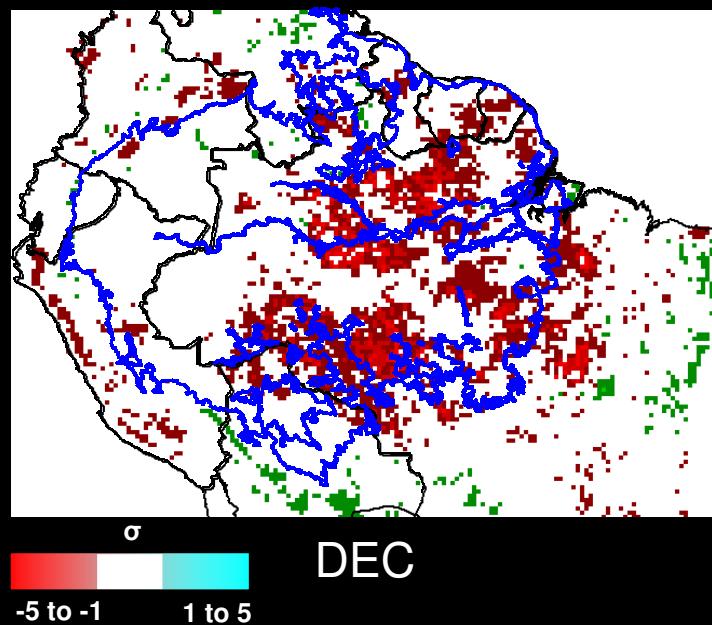


## Results: Remote Sensing data: NDWI



# Results: Remote Sensing data: NDVI

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# Results: Remote Sensing data: EVI

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