

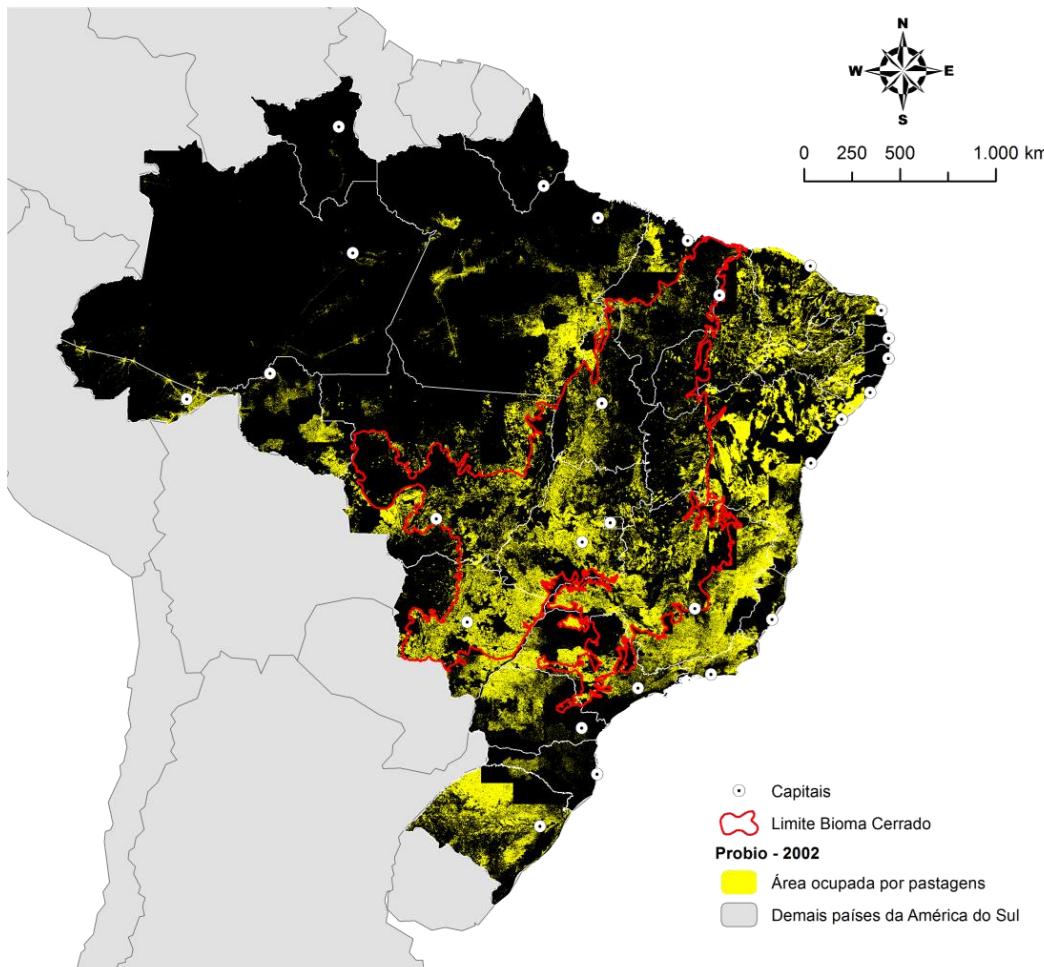
# Radiografia das Pastagens do Brasil



Arielle Elias Arantes  
Universidade Federal de Goiás (UFG)  
Instituto de Estudos Sócio-Ambientais (IESA)  
[www.lapig.iesa.ufg.br](http://www.lapig.iesa.ufg.br)

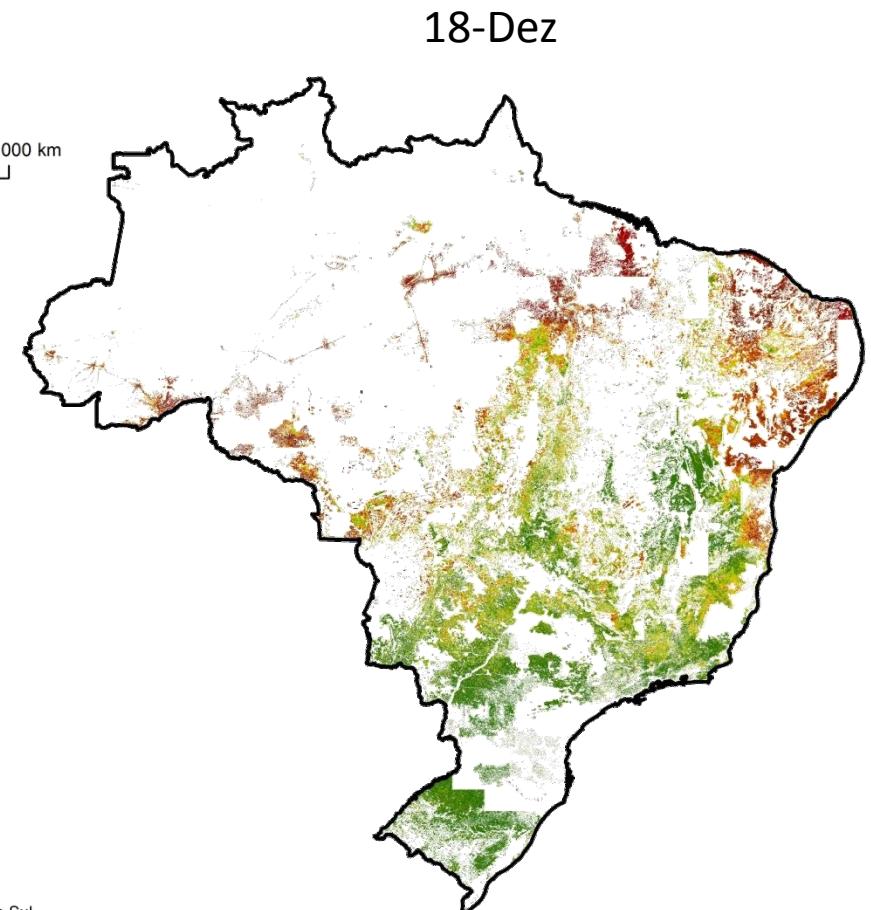
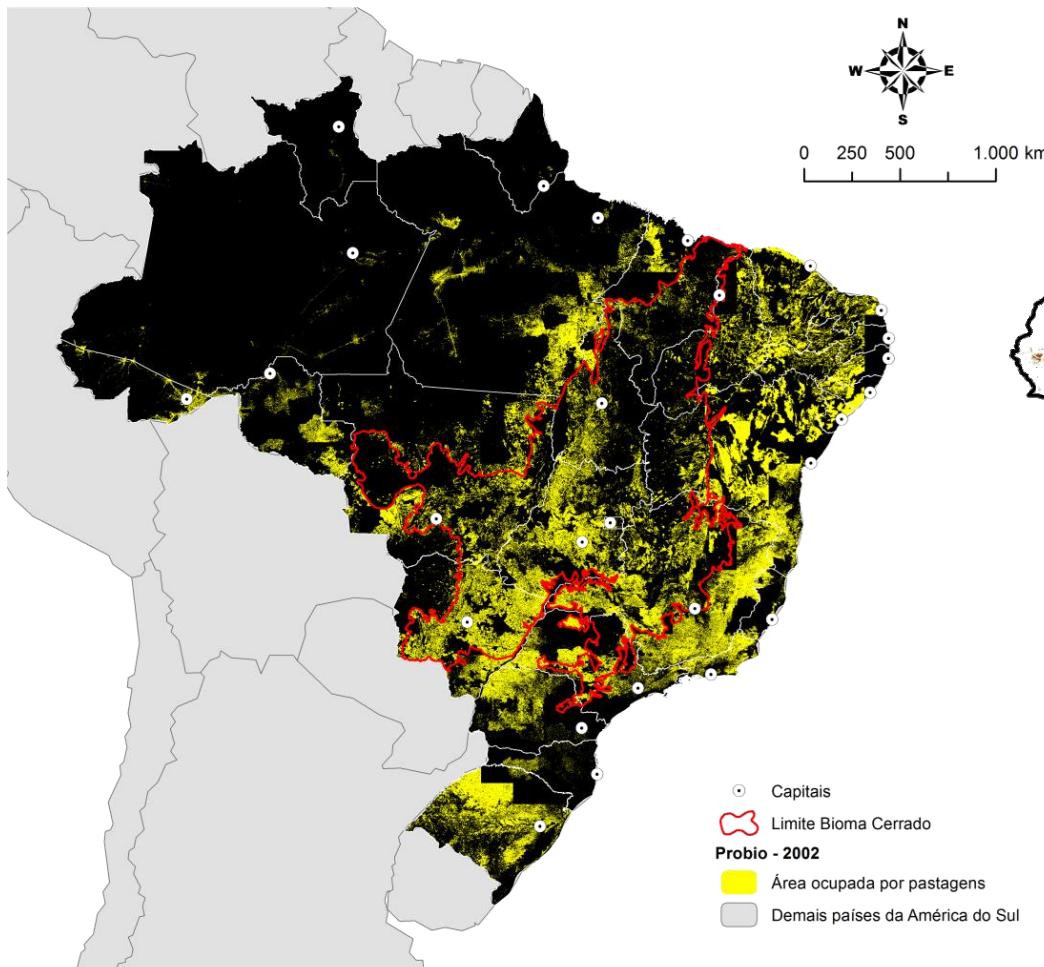
# Pastagens no Brasil e a Sazonalidade

EVI2 – MOD13Q1



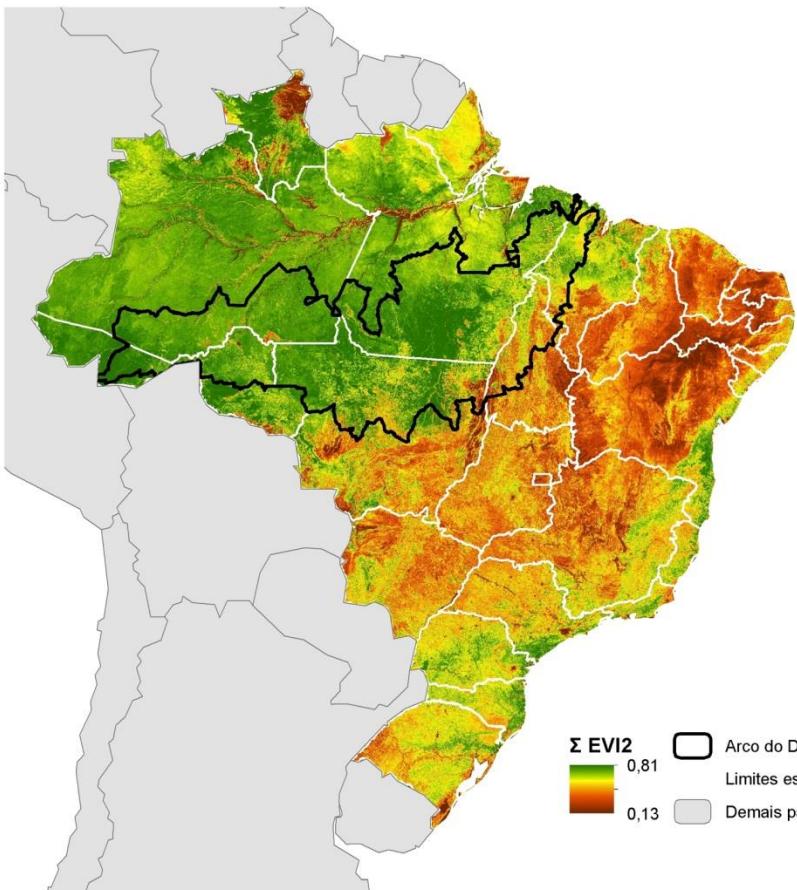
# Pastagens no Brasil e a Sazonalidade

EVI2 – MOD13Q1

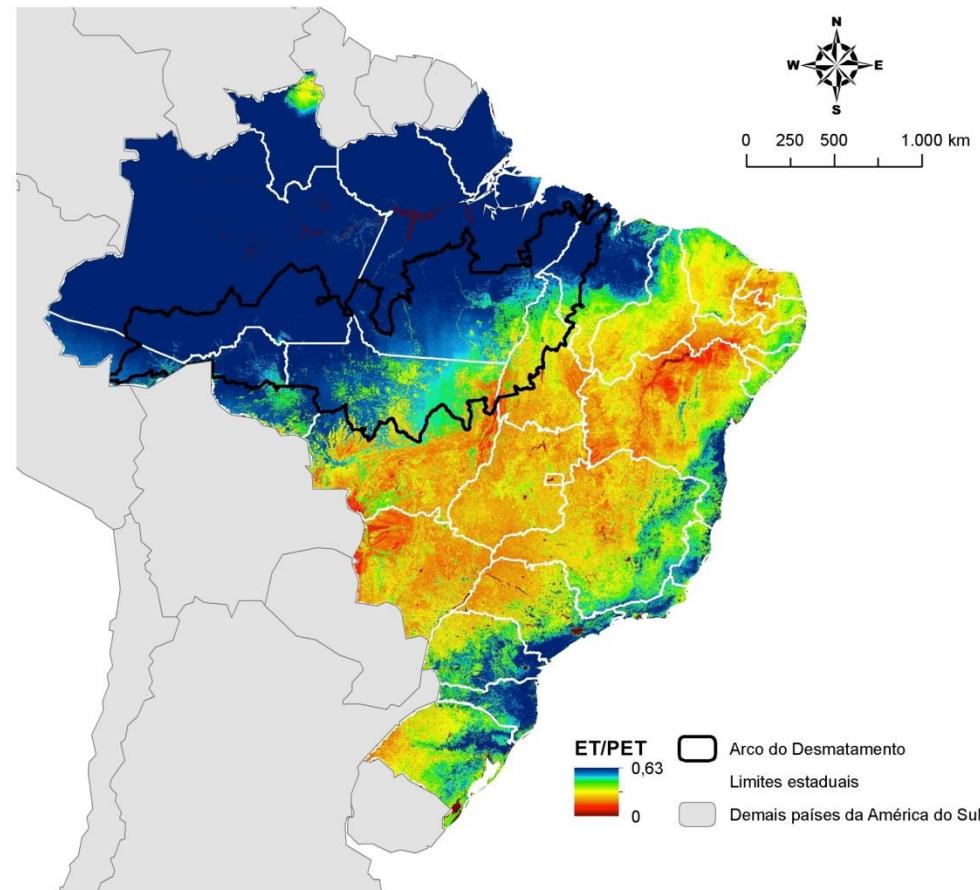


# Imagens Brasil: 2000 - 2013

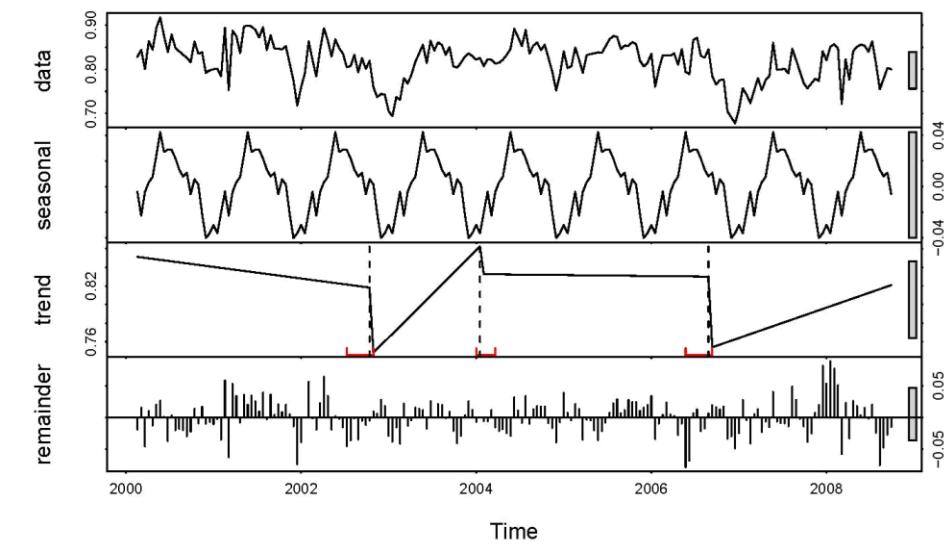
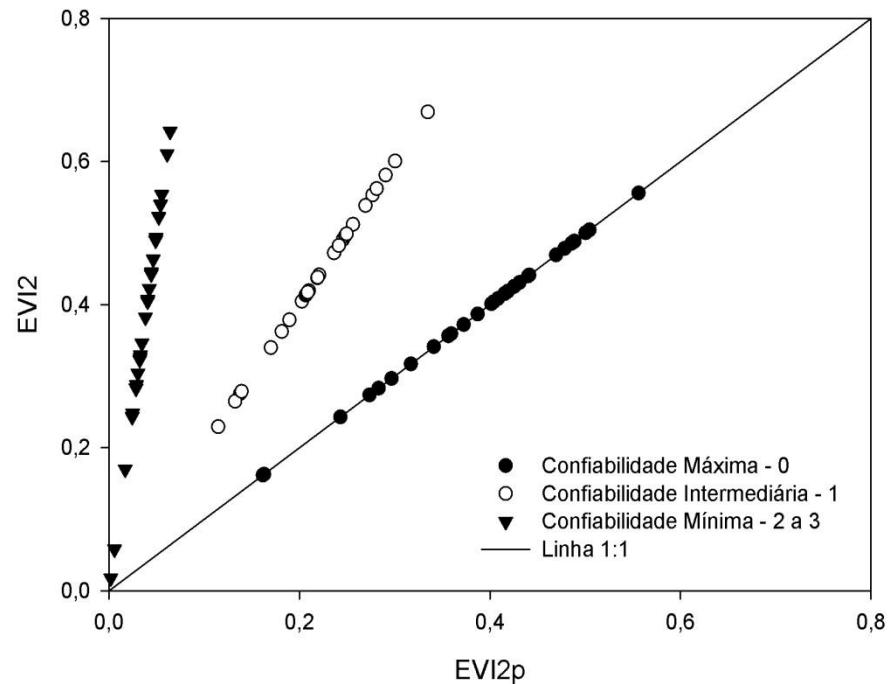
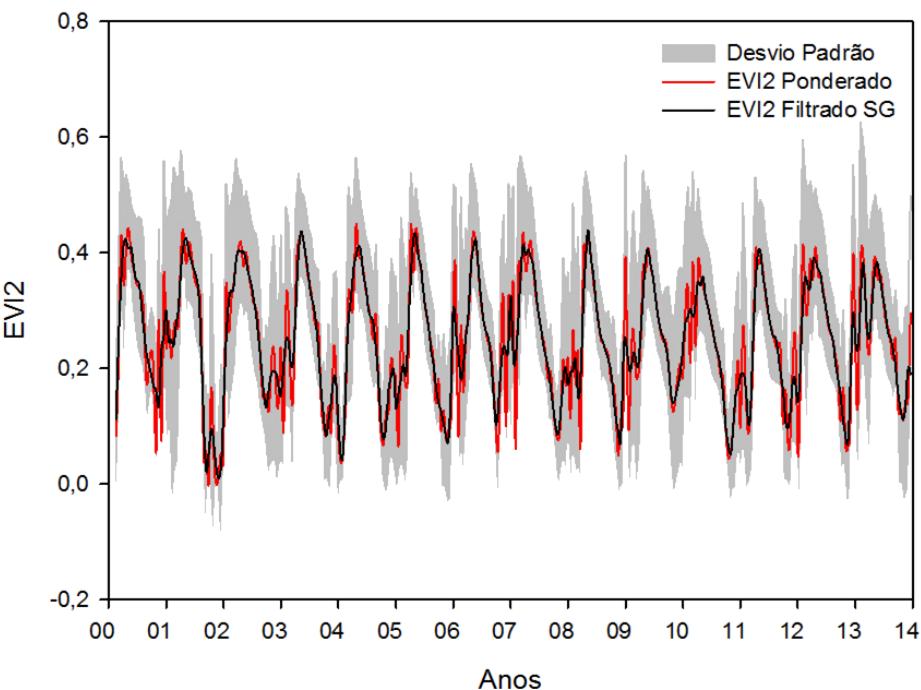
**MOD13Q1**  
**2000 - 2013**



**MOD16A1**  
**2000 - 2012**



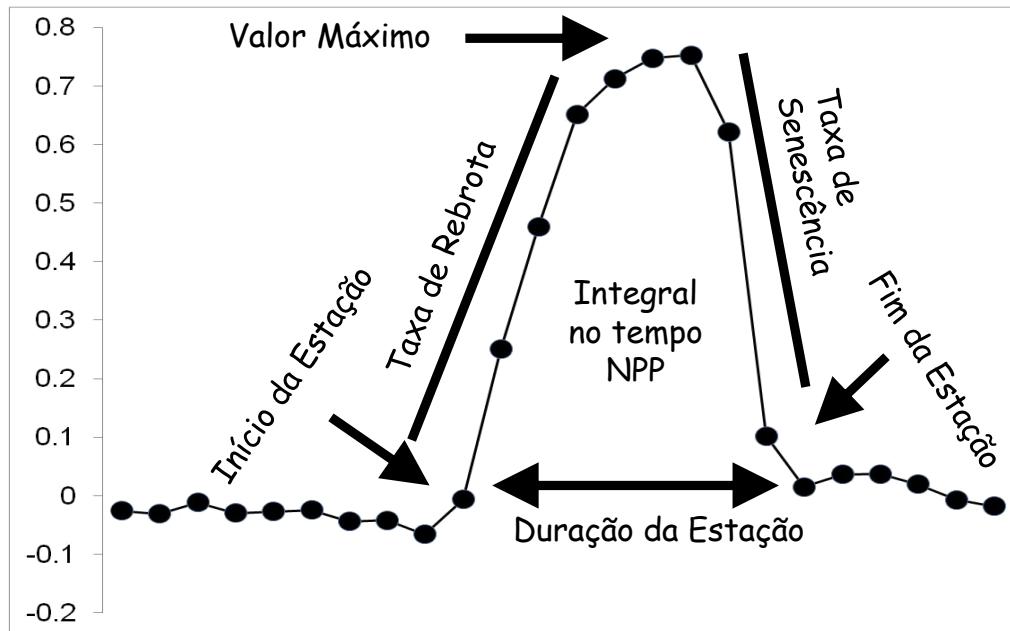
# Características das séries temporais



Componentes da Série Temporal

- Sazonal
- Tendência
- Ruído

# Obtenção de parâmetros sazonais

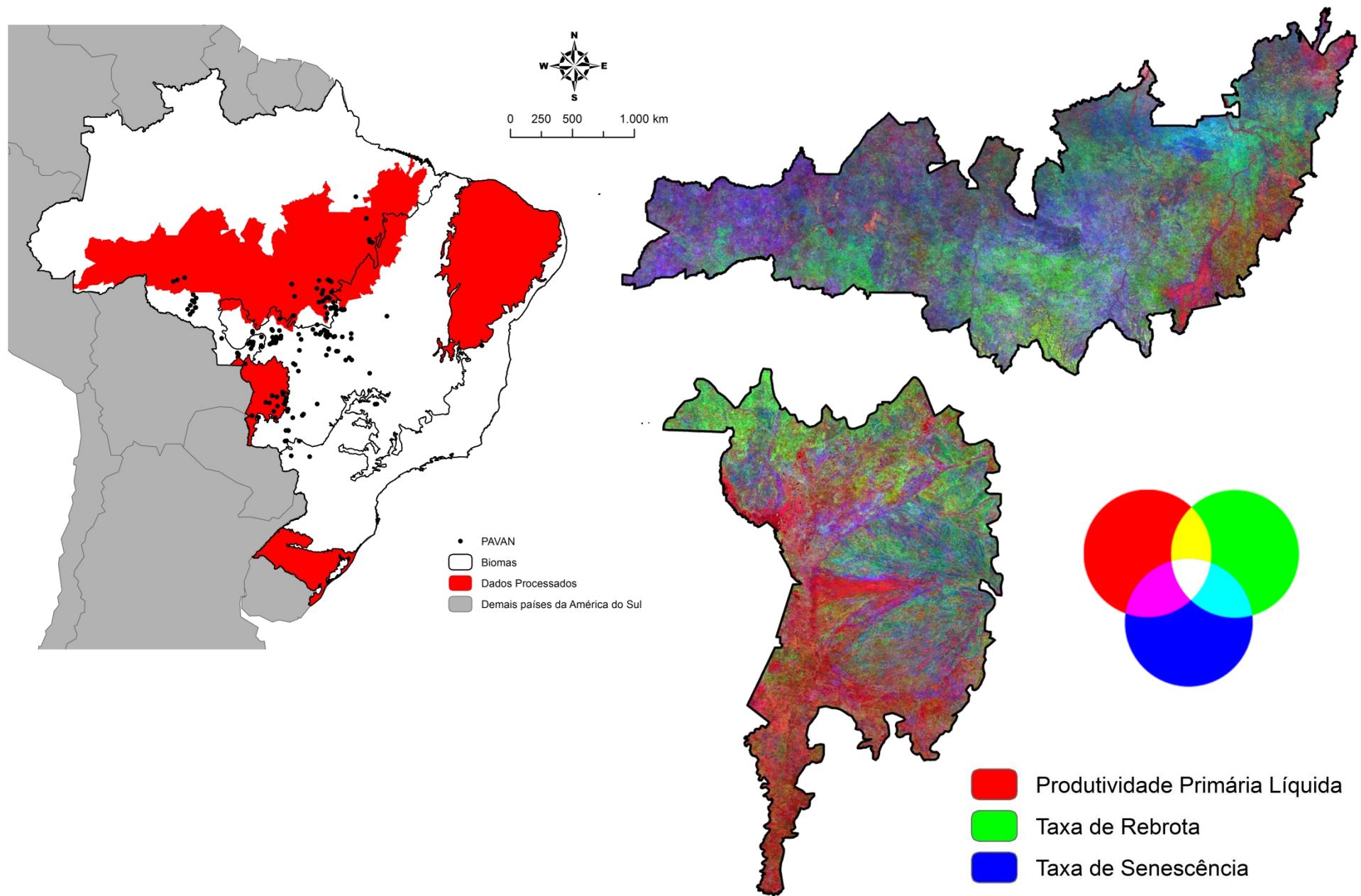


Imagens	Número	Espaço em Disco
MOD13Q1 – EVI2	322	390 GB
MOD16A2 – ET e PET	312	24 GB
TRMM – PPT	156	17 MB

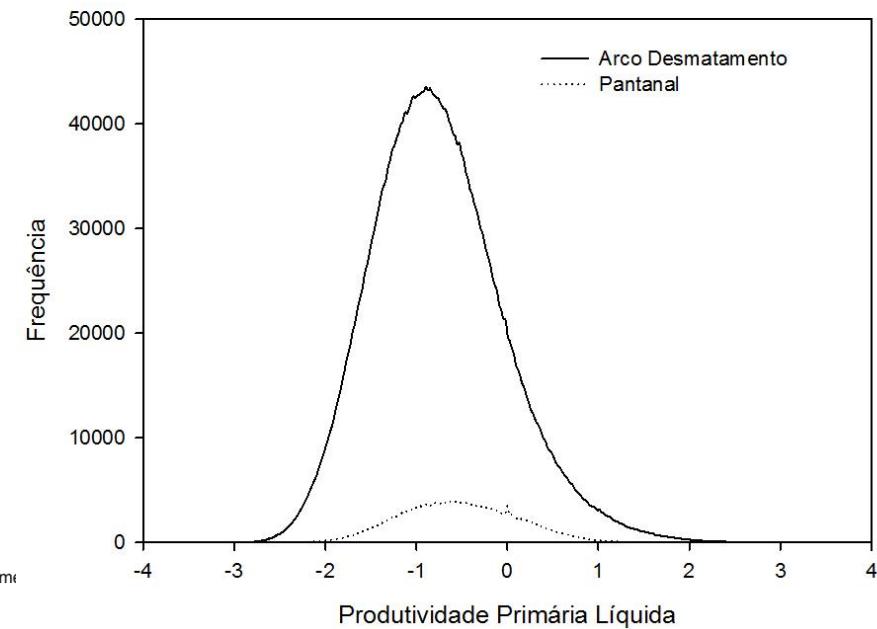
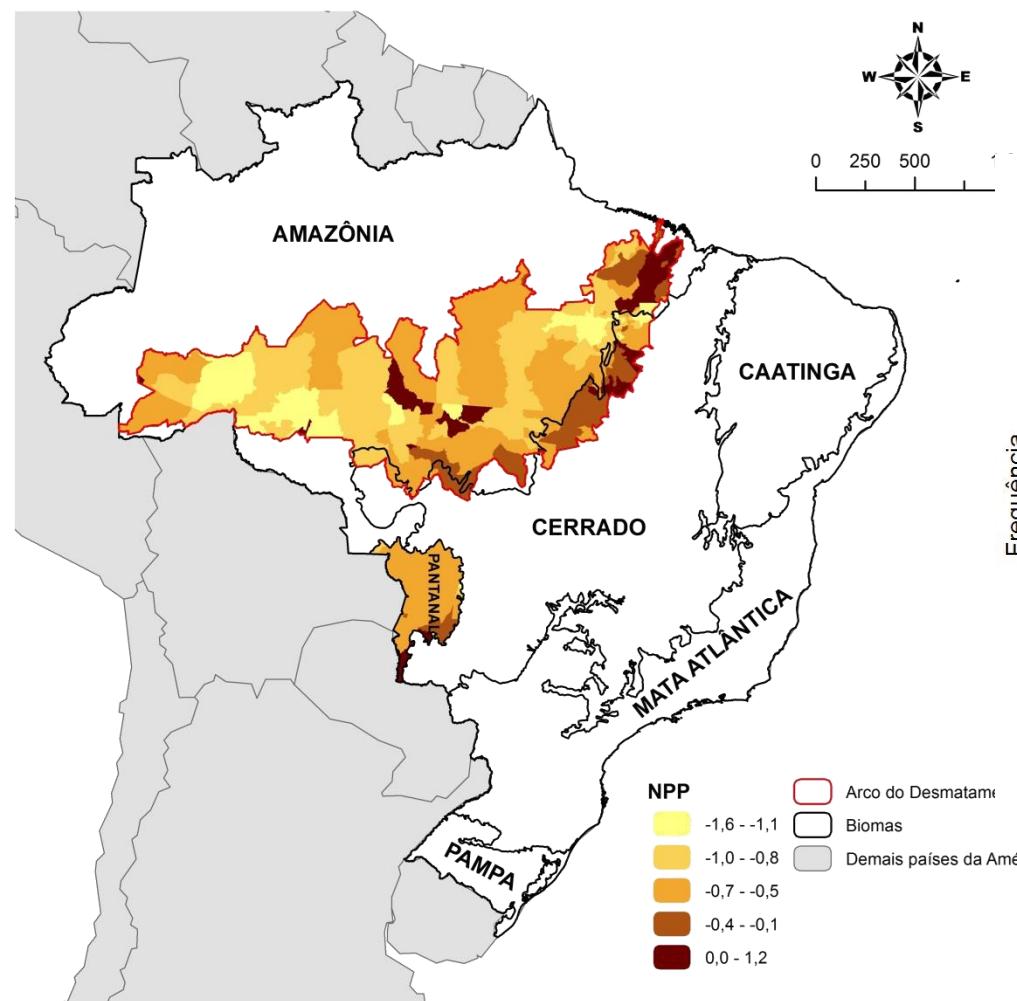
## Parâmetros Sazonais Utilizados

- Produtividade Primária Líquida - NPP
- Taxa de Rebota
- Taxa de Senescência

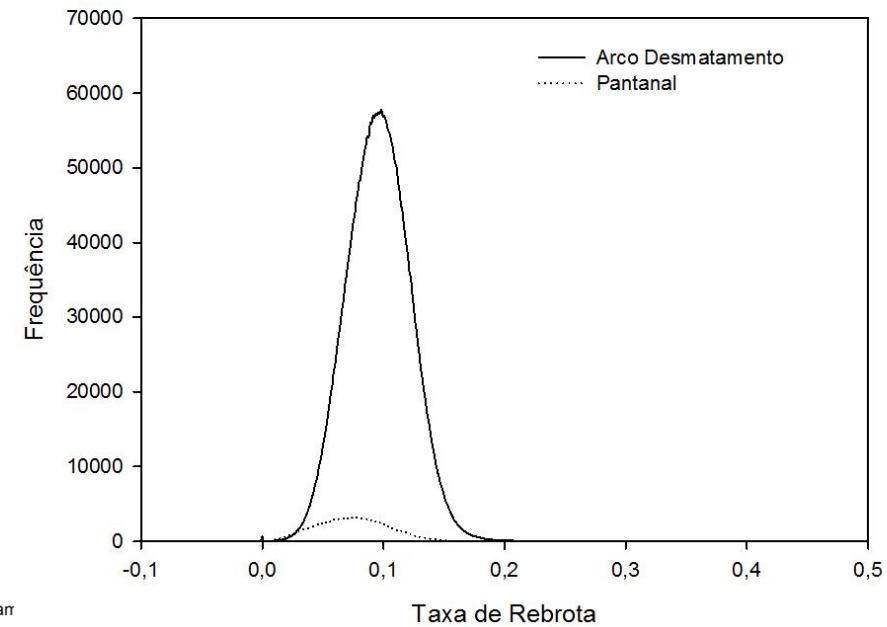
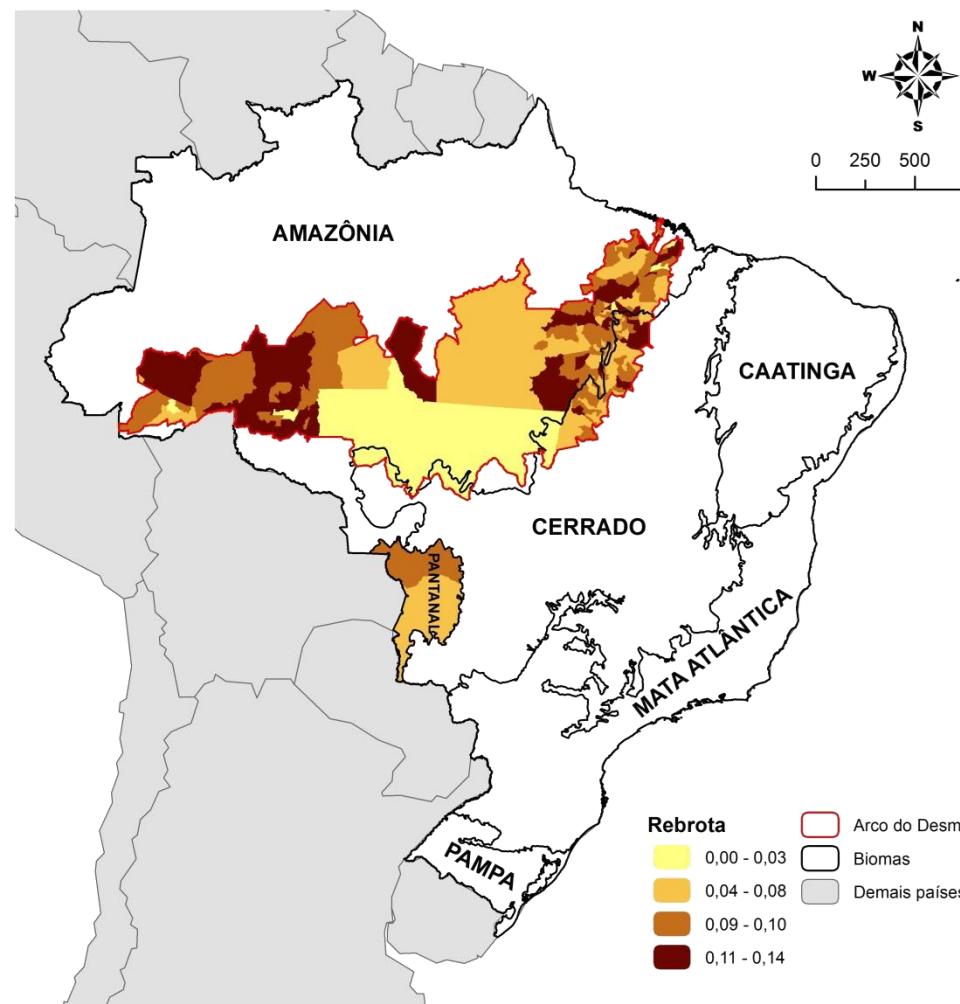
# Parâmetros sazonais



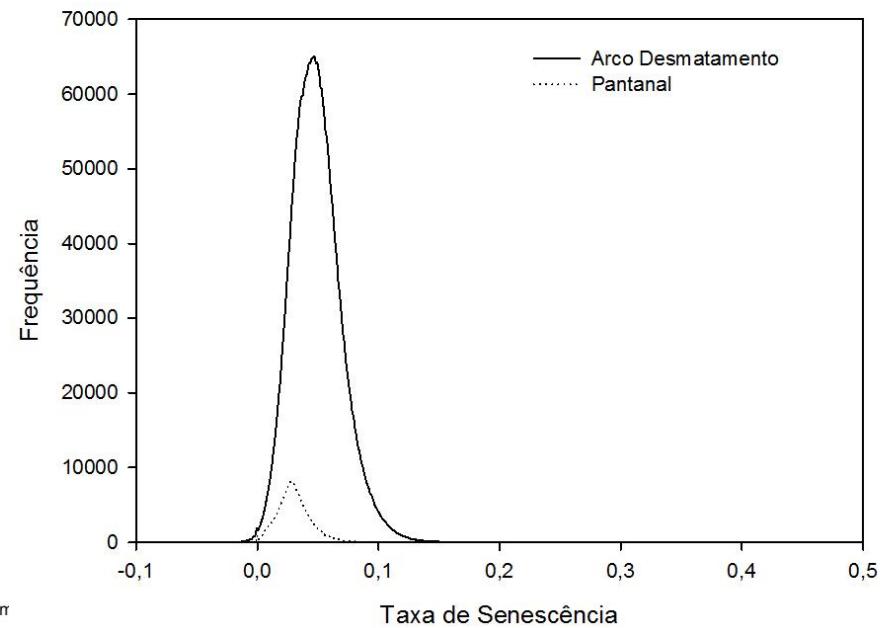
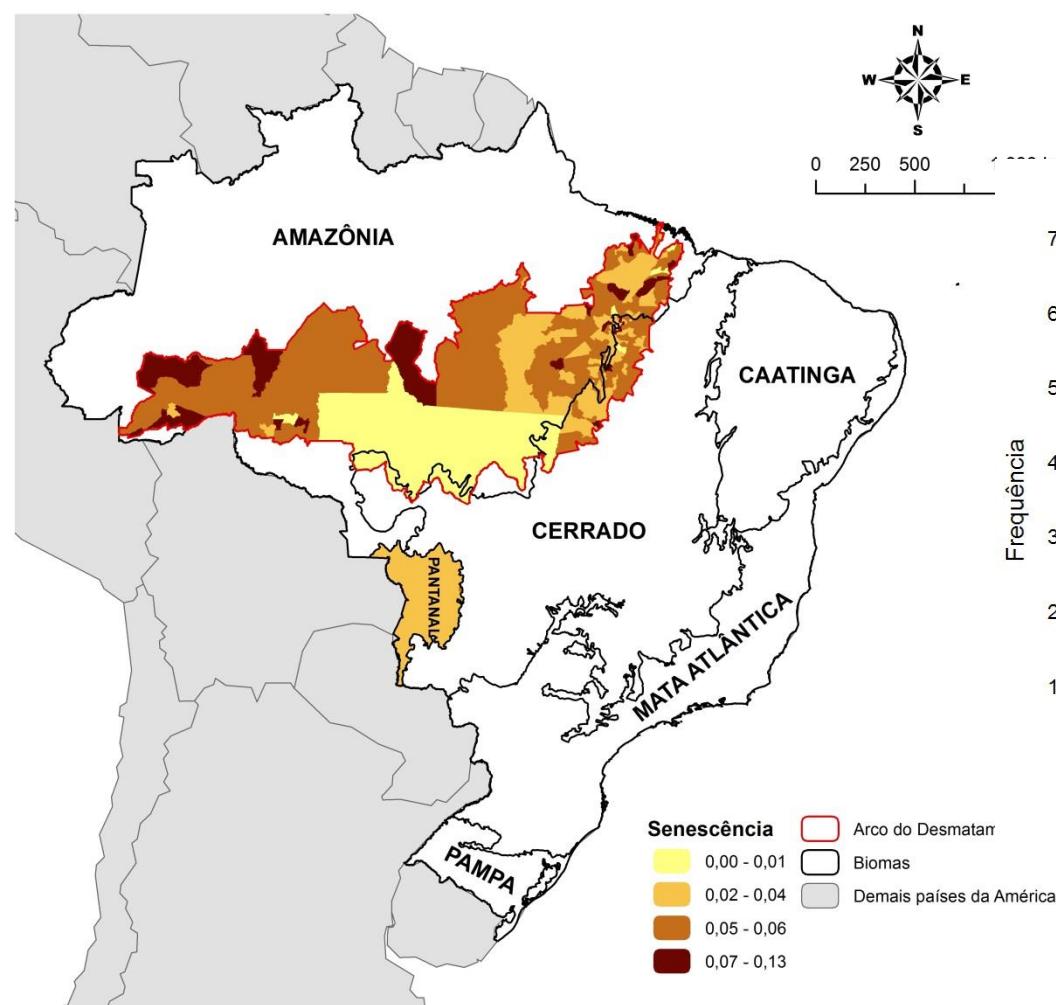
# Produtividade Primária Líquida das Pastagens



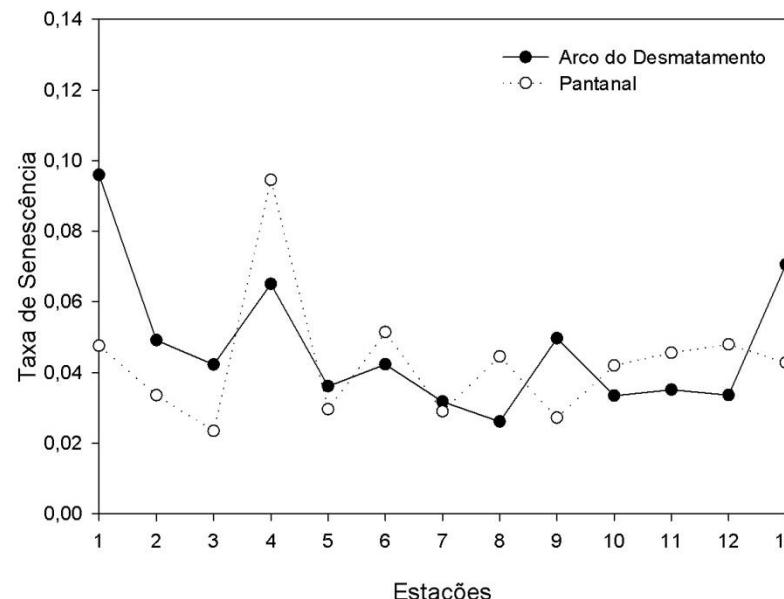
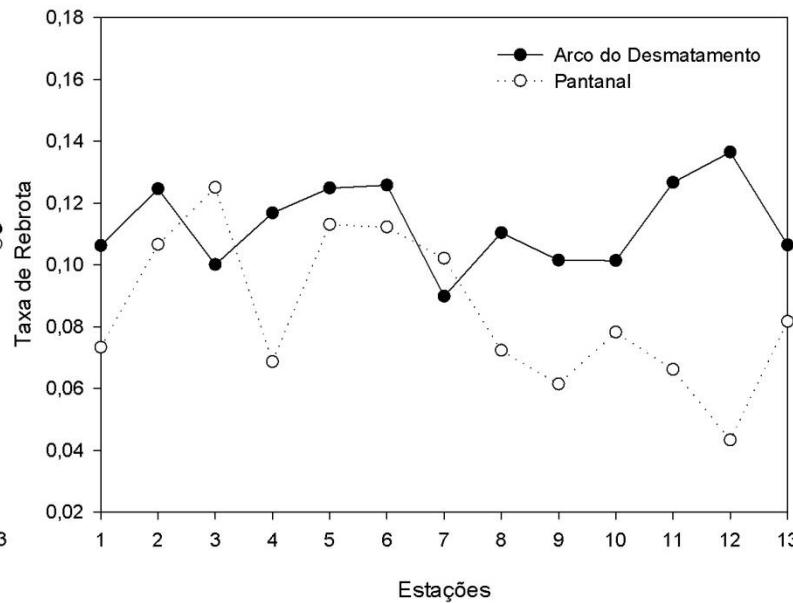
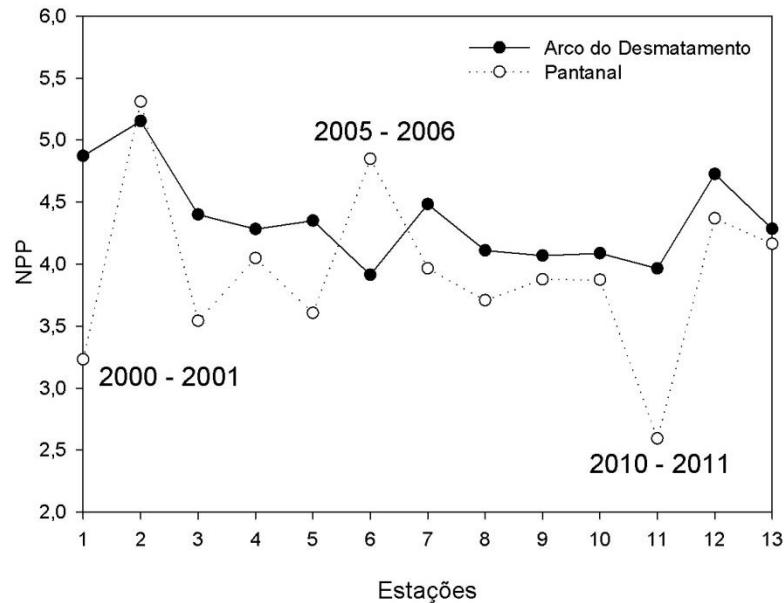
# Taxa de Rebrota das Pastagens



# Taxa de Senescênciā das Pastagens



# Parâmetros sazonais



Estações	Arco do Desmatamento		Pantanal			
	SOS	EOS	SOS	EOS		
1	17-jan-01	13-set-01	8 meses	2-fev-01	29-set-01	8 meses
2	1-jan-02	29-set-02	9 meses	16-nov-01	16-nov-02	12 meses
3	2-fev-03	15-out-03	8 meses e 14 dias	17-jan-03	28-agosto-03	7 meses e 14 dias
4	18-fev-04	15-out-04	8 meses	2-fev-04	2-dez-04	9 meses
5	2-fev-05	15-out-05	8 meses e 14 dias	1-jan-05	13-set-05	8 meses e 14 dias
6	17-jan-06	13-set-06	8 meses	16-nov-05	15-out-06	11 meses
7	1-jan-07	29-set-07	9 meses	17-jan-07	29-set-07	8 meses e 14 dias
8	2-fev-08	15-out-08	8 meses e 14 dias	2-dez-07	28-agosto-08	9 meses
9	2-fev-09	29-set-09	8 meses	18-dez-08	15-out-09	10 meses
10	18-dez-09	13-set-10	9 meses	1-jan-10	31-out-10	10 meses
11	2-fev-11	15-out-11	8 meses e 14 dias	1-jan-11	13-set-11	8 meses e 13 dias
12	1-jan-12	29-set-12	9 meses	18-dez-11	16-nov-12	11 meses
13	1-jan-13	28-agosto-13	8 meses	18-dez-12	15-out-13	10 meses

# Próximas Etapas

- Análise séries temporais Brasil
  - Produtividade, senescênci & rebrota;
    - Biomas
    - Arco do Desmatamento
  - Análise de Tendência
    - Algoritmo BFAST
  - Índices de Qualidade baseados no índice de vegetação