

# Grupo Química e Aerossóis

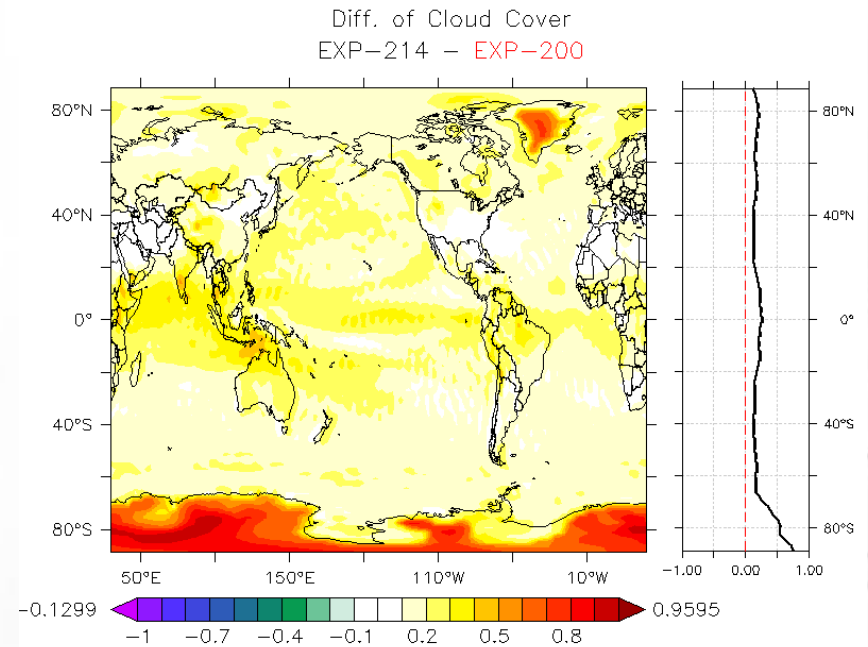
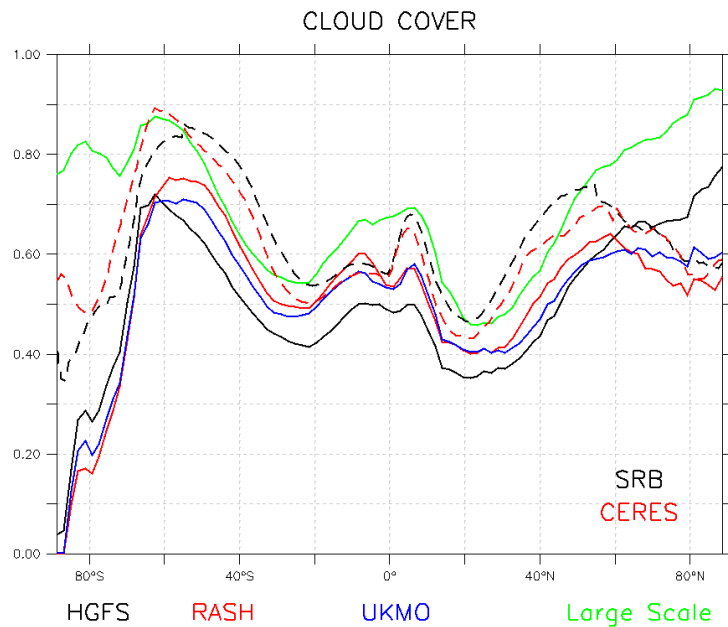
## Otacilio Leandro

ABRIL , 2015

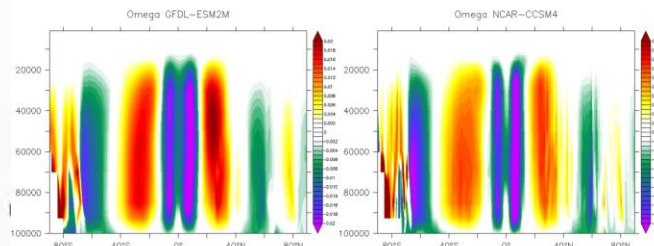
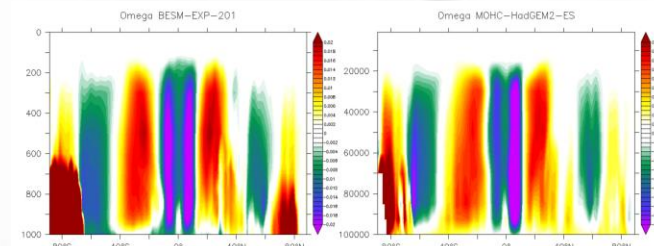
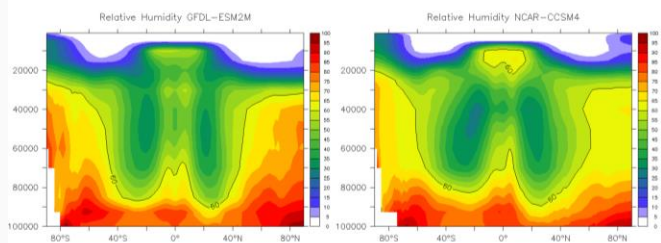
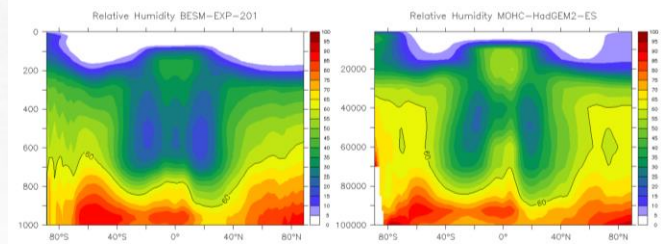
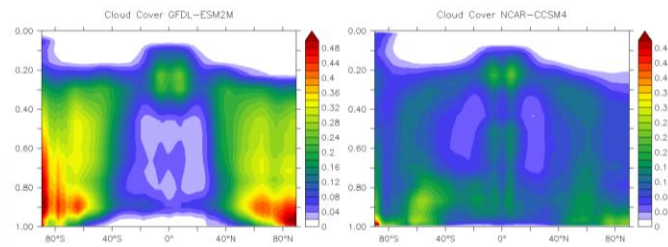
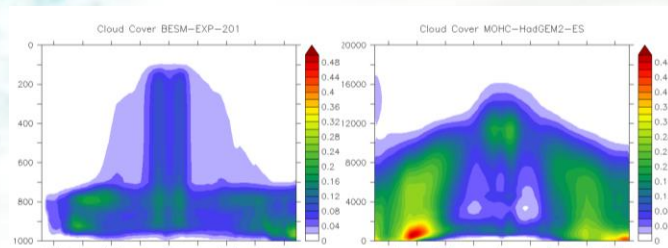
# Atividades

- **Avaliação / Validação do BESM**
  - Balanço radiativo
  - Radiação de onda curta e onda longa
  - Fração de cobertura de nuvem etc.
  
- **Comparação com dados observados e outros modelos do CMIP5**
  
- **Comparação entre experimentos**
  - Variação de CO<sub>2</sub>

# Exemplo: Cobertura de Nuvem



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# Futuro

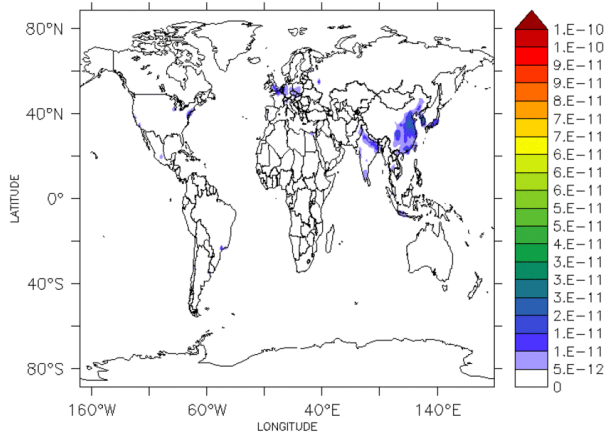
- **Participação no SOLAS**
  - Comparação dos esquemas de radiação: CLIRAD, CLIRAD-Tarassova e RRTMG (?)
  
- Preparar arquivos de emissão para execução do modelo com diferentes cenários de emissão
  
- Testes, Validação do BESM-HAM
  
- Aplicação da minha tese ao BESM-HAM
  - Verificar transporte dos aerossóis de queimadas
  - Avaliar balanço radiativo na região de fortes emissões de queimadas etc.

# Emissões

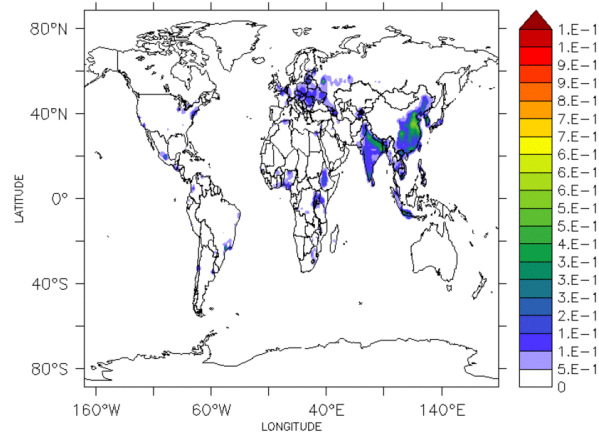
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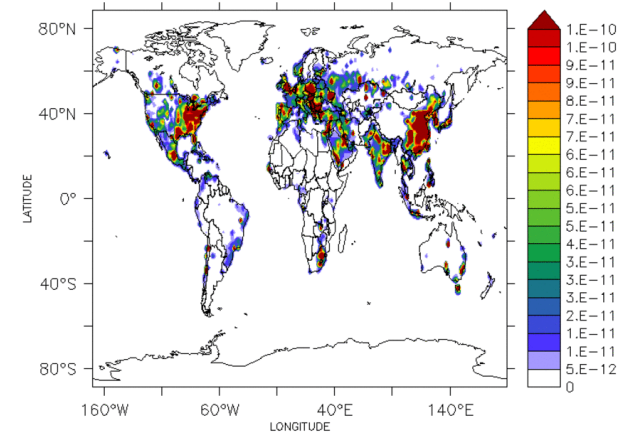
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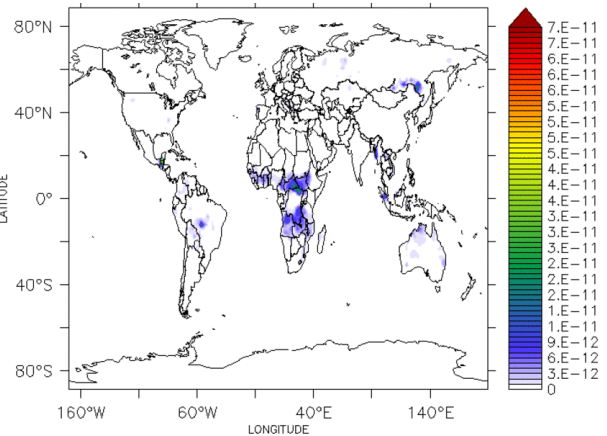
Anthropogenic Black Carbon



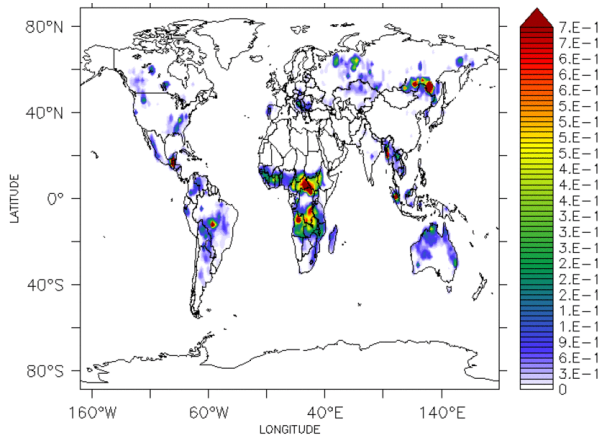
Anthropogenic Organic Carbon



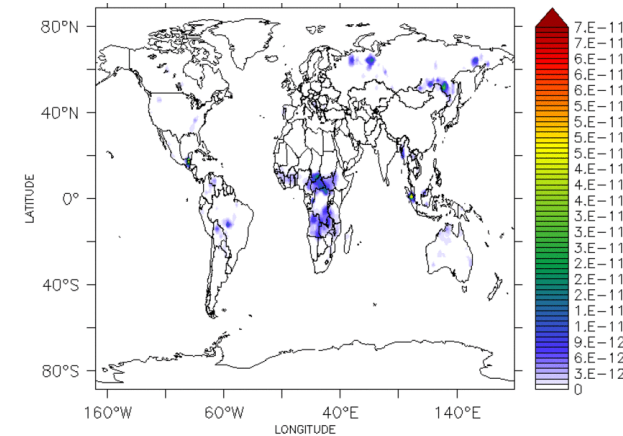
Anthropogenic Sulphur Dioxide



Wild Fire Black Carbon



Wild Fire Organic Carbon



Wild Fire Sulphur Dioxide

Obrigado.