

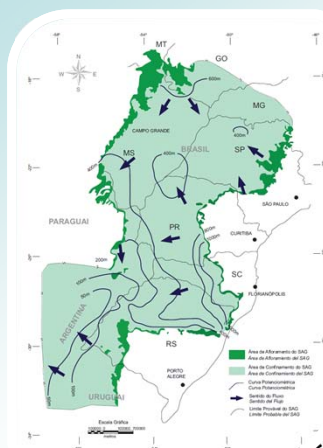
Mesa Redonda Monitoramento Águas Subterrâneas



Edson Wendland



Sistema Aquífero Guarani



Área de Afloramento do SAG



Área de Confinamento do SAG

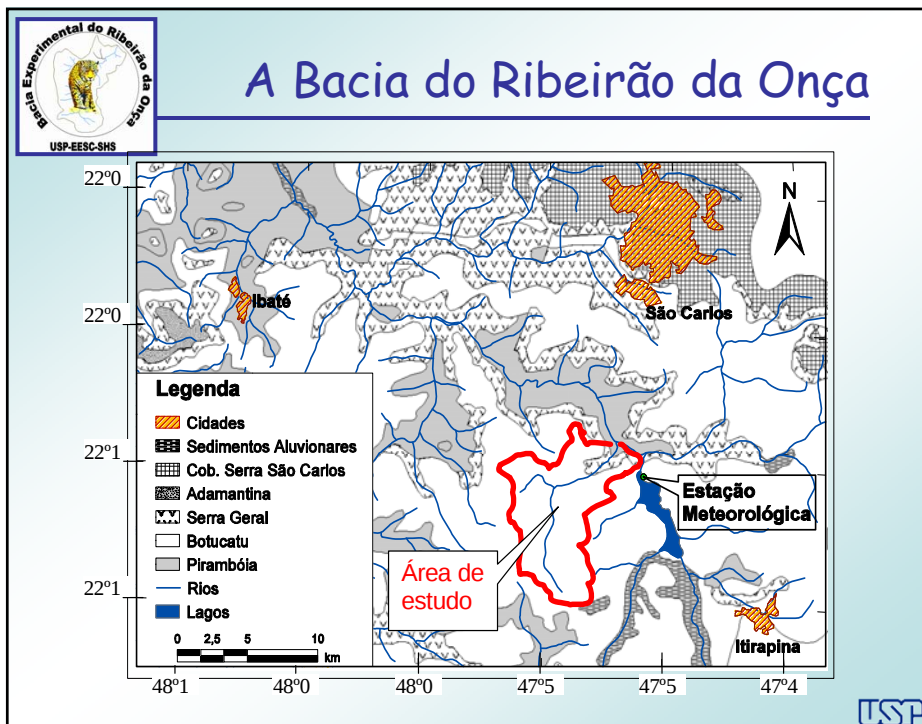
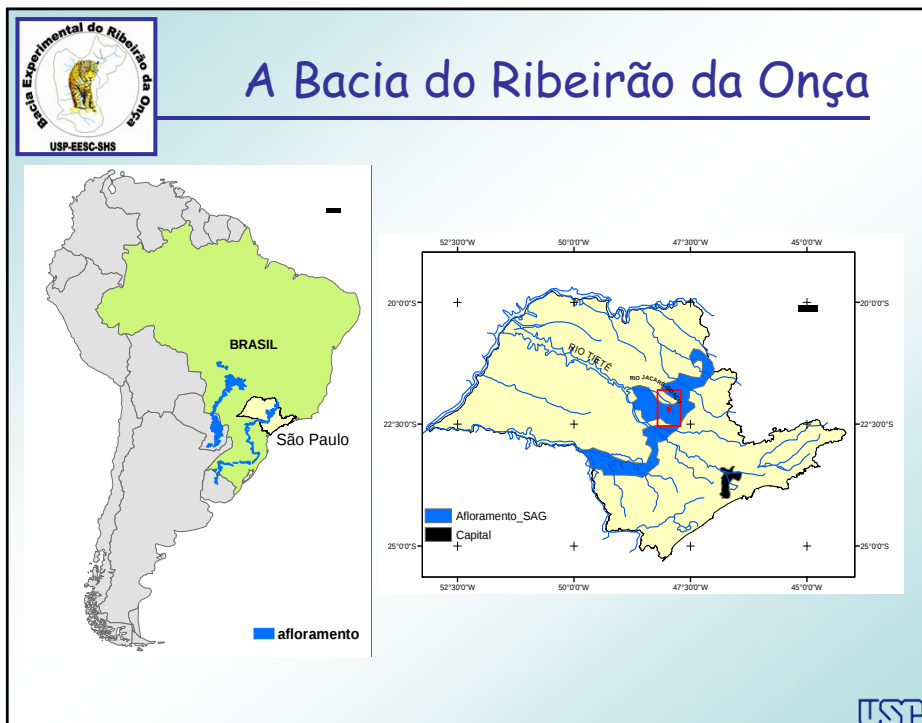


Curva Potenciométrica



Sentido do Fluxo

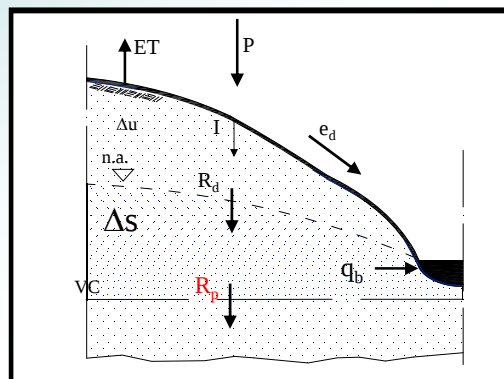
Fonte: OAS-SAG, 2009



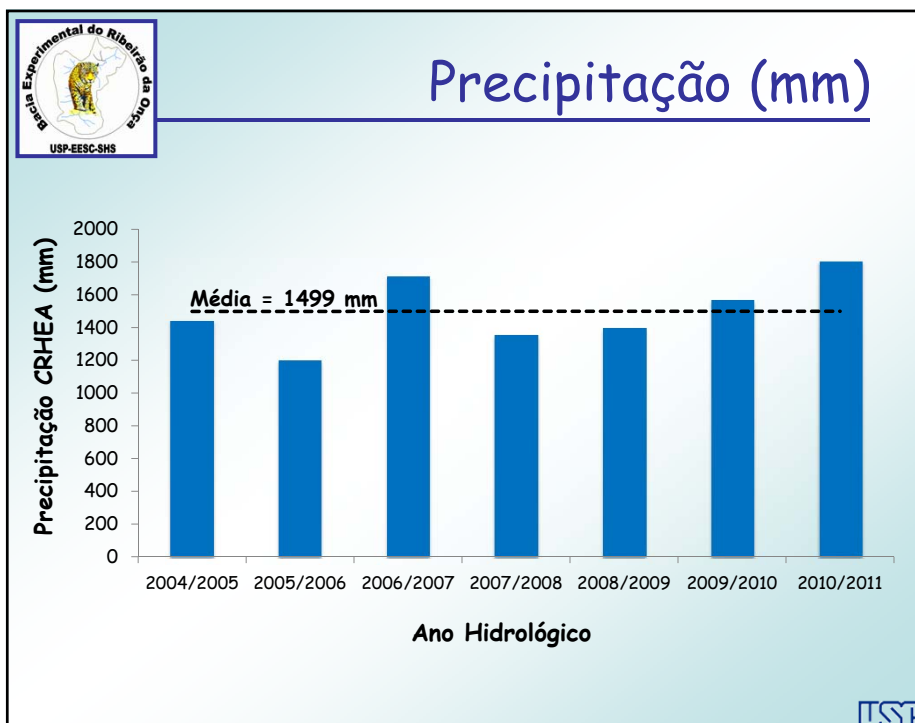
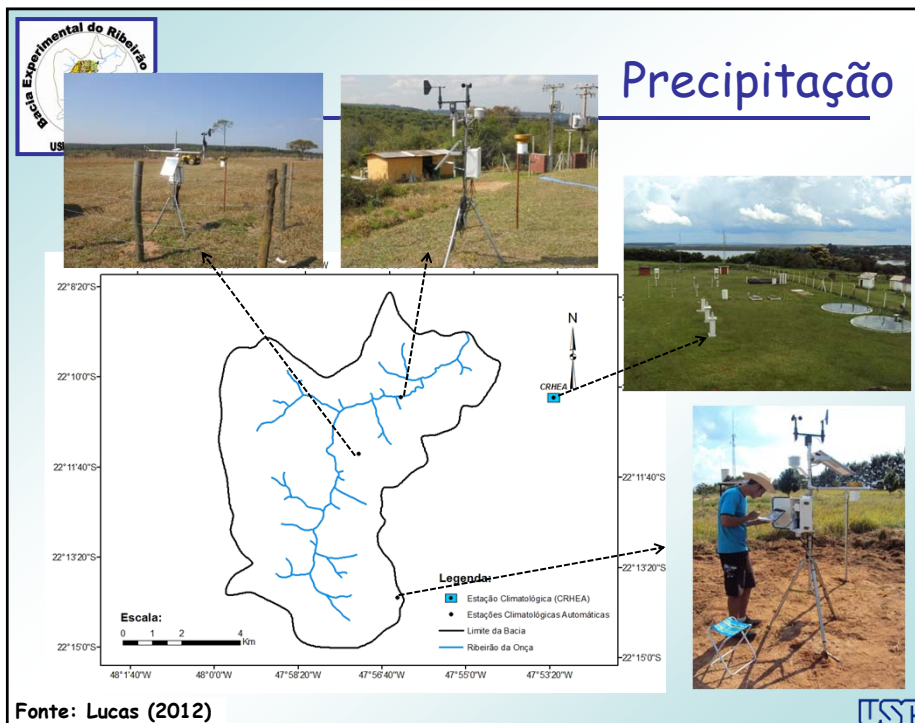
Usos do solo



Modelo conceitual

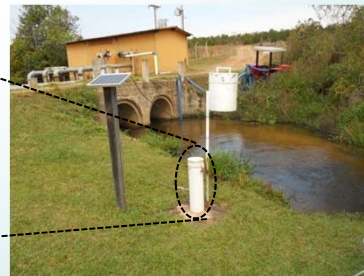


$$R_p = P - ET - e_d - q_b - \Delta s$$





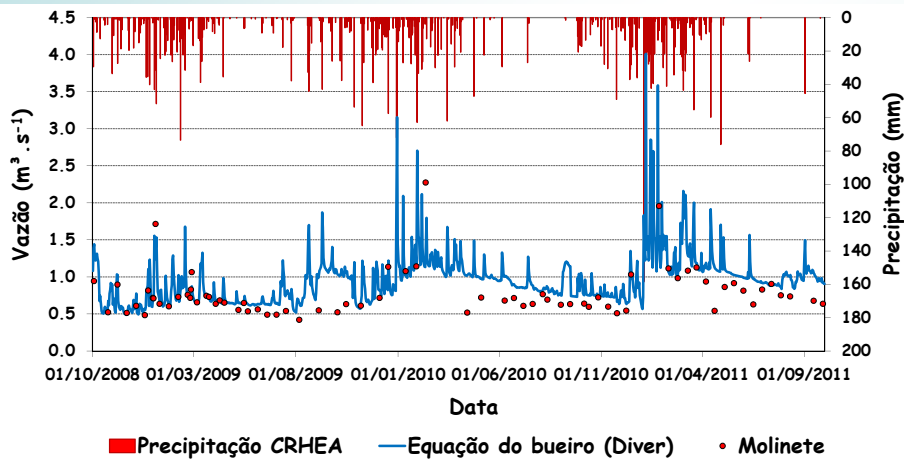
Escoamento superficial - $e_d + q_b$



USP

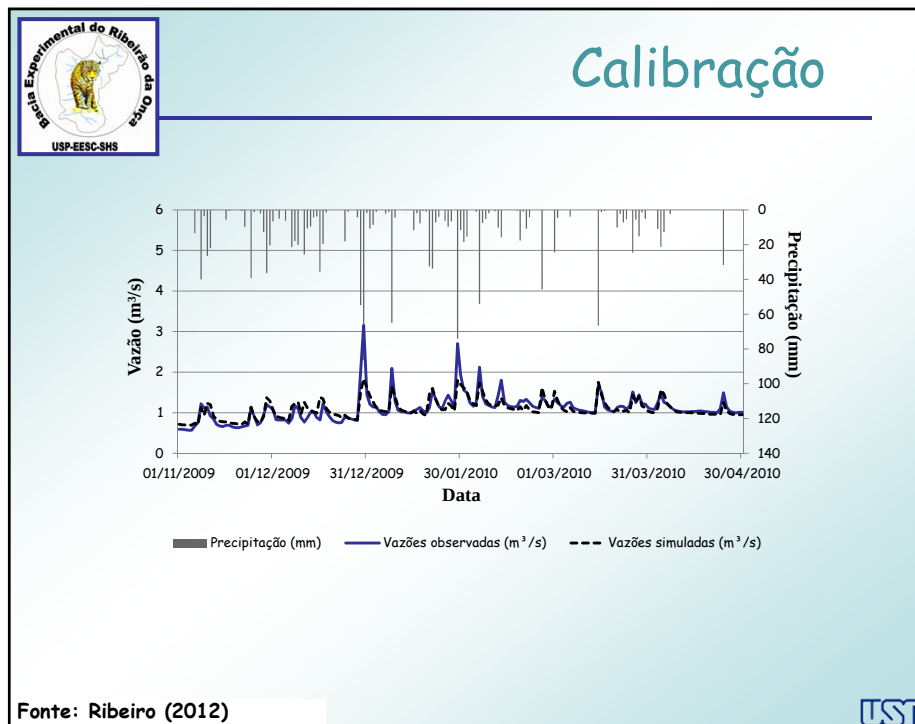
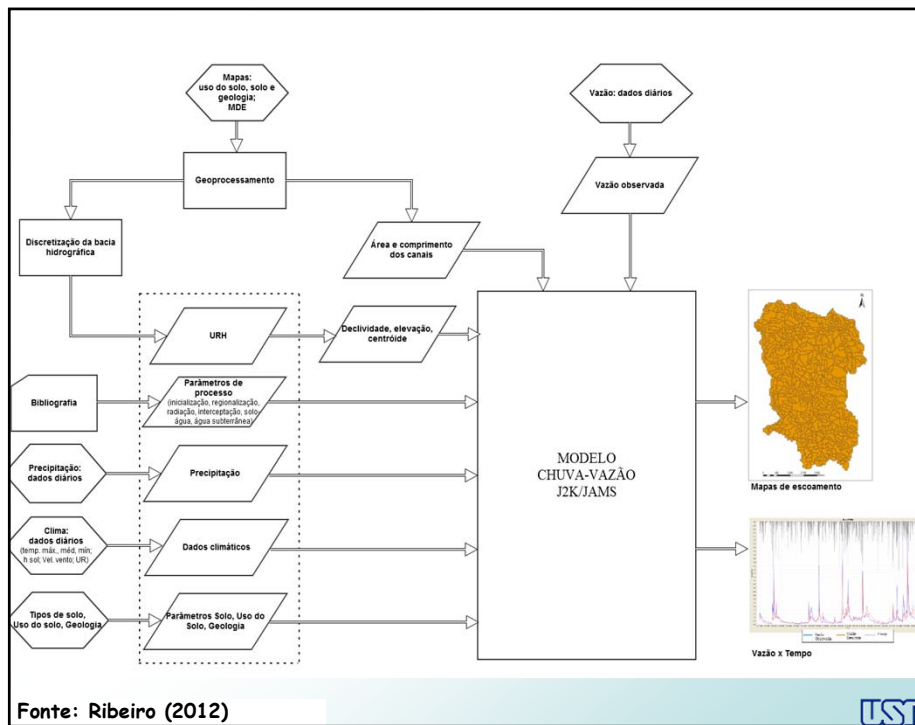


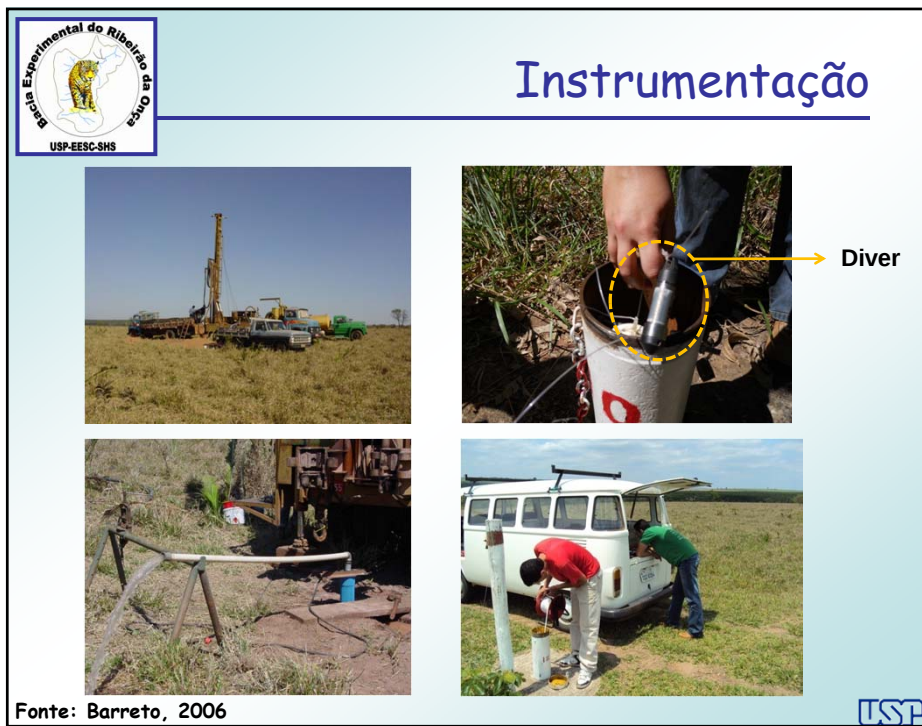
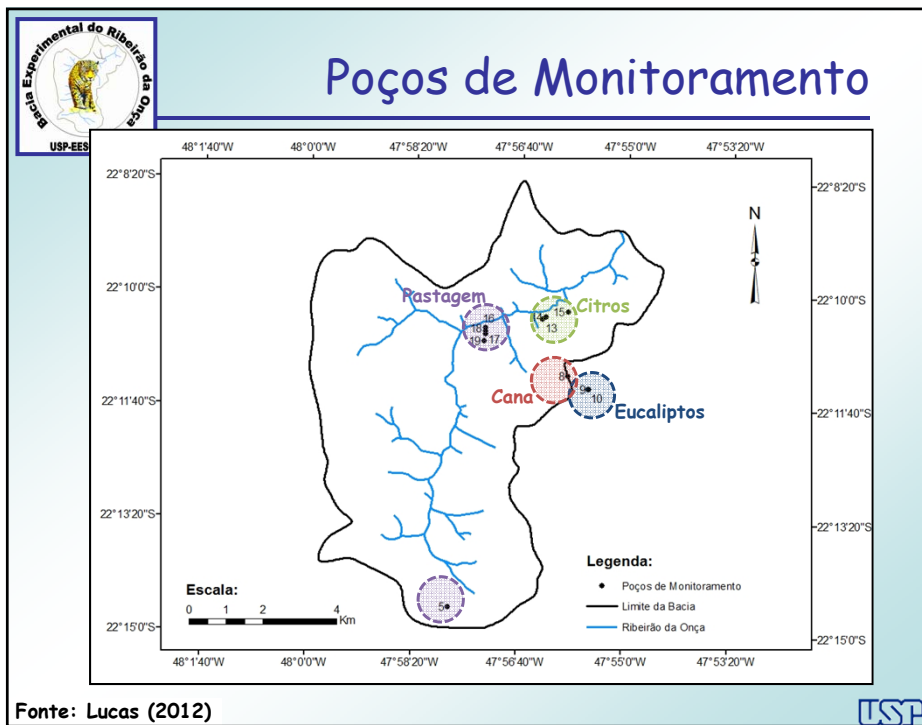
Escoamento Superficial



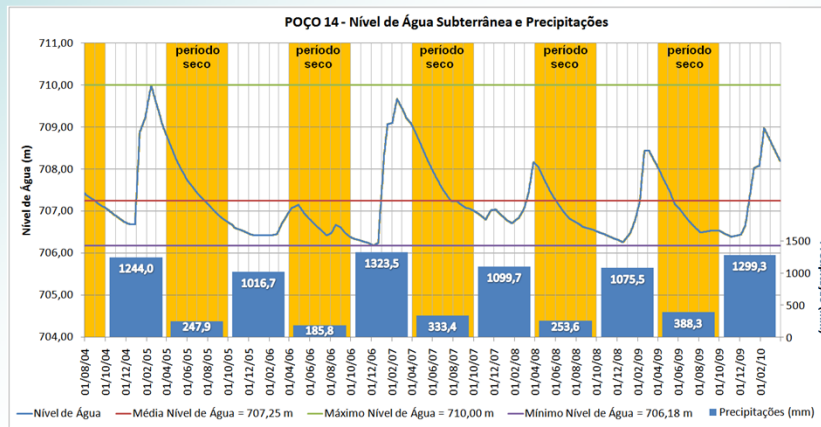
Fonte: Lucas (2012)

USP



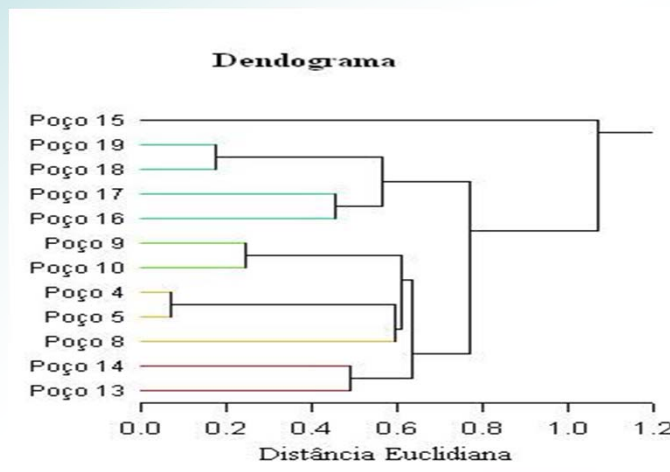


Variação de nível



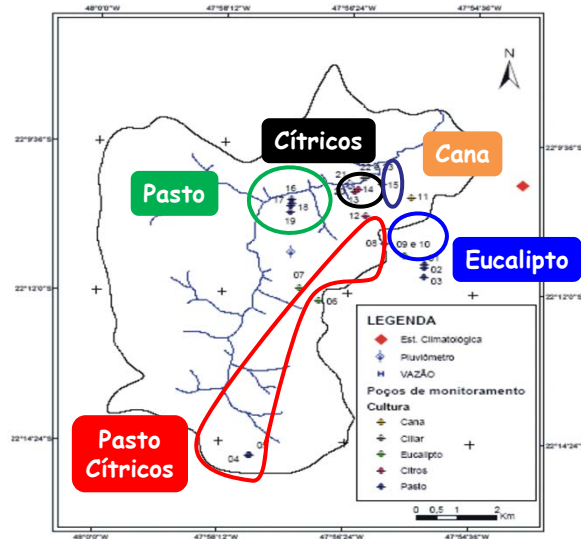
Fonte: Cabrera *et al.*, 2010

Análise de correlação



Fonte: Homobono, 2009

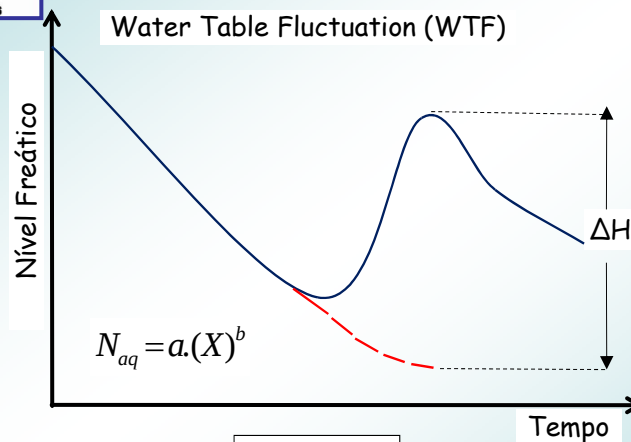
Correlação



Fonte: Homobono, 2009

Recarga Direta (R_d)

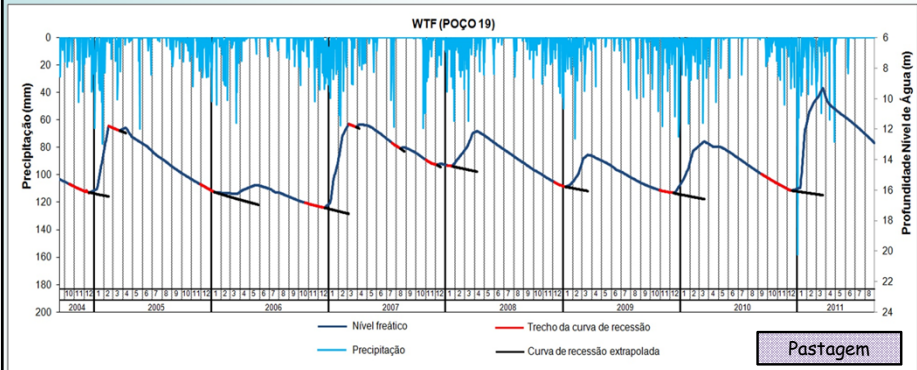
Water Table Fluctuation (WTF)



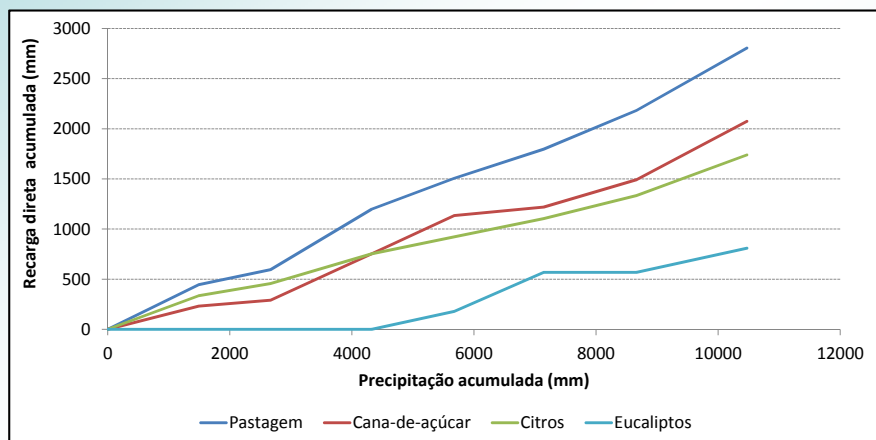
$$R = S_y \cdot \frac{\Delta H}{\Delta t}$$

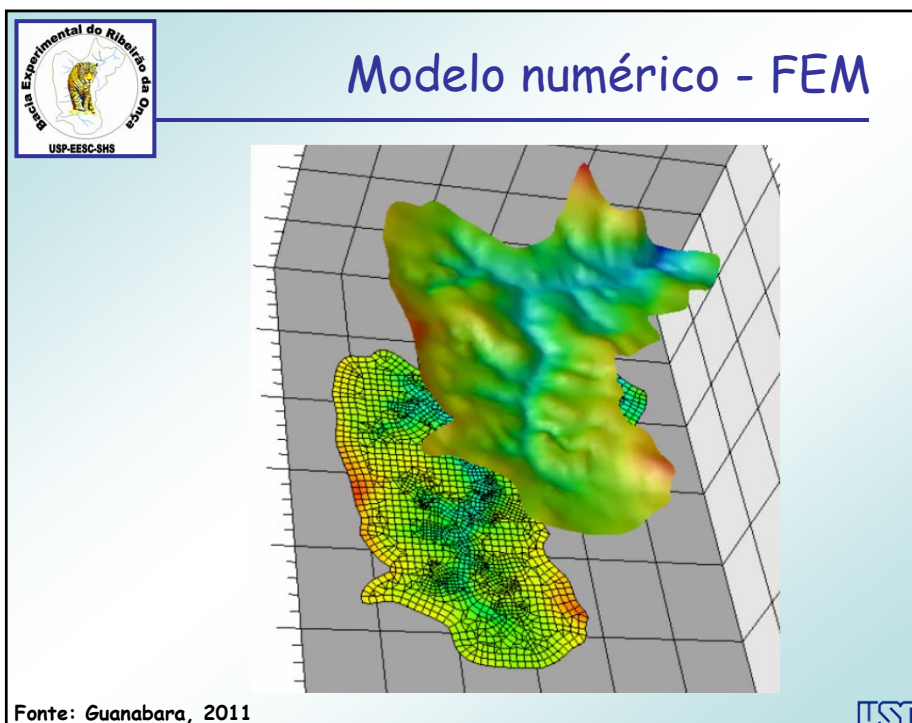
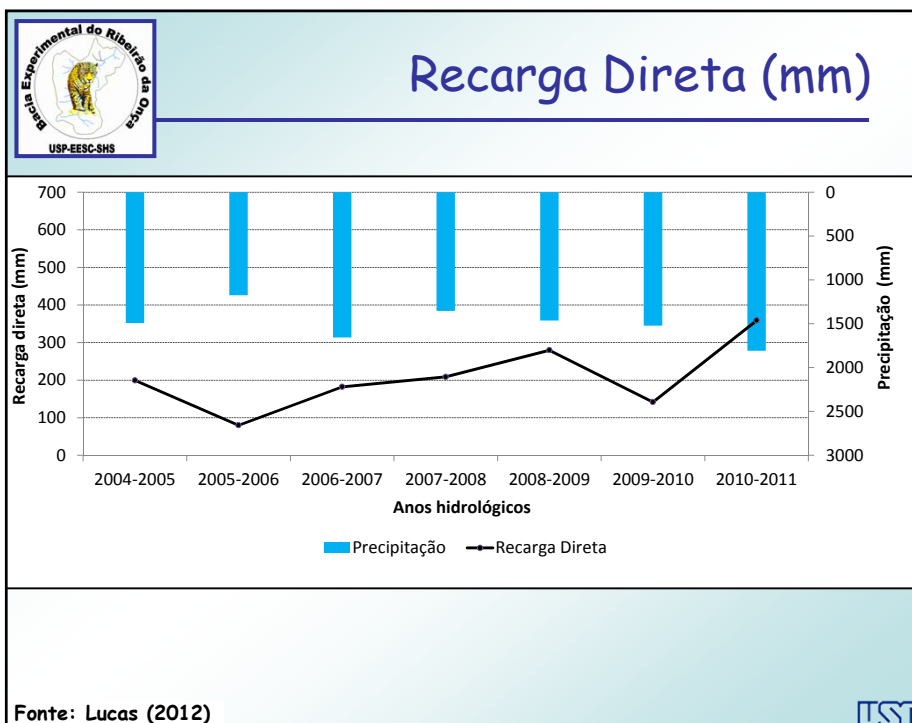


Recarga Direta (R_d)



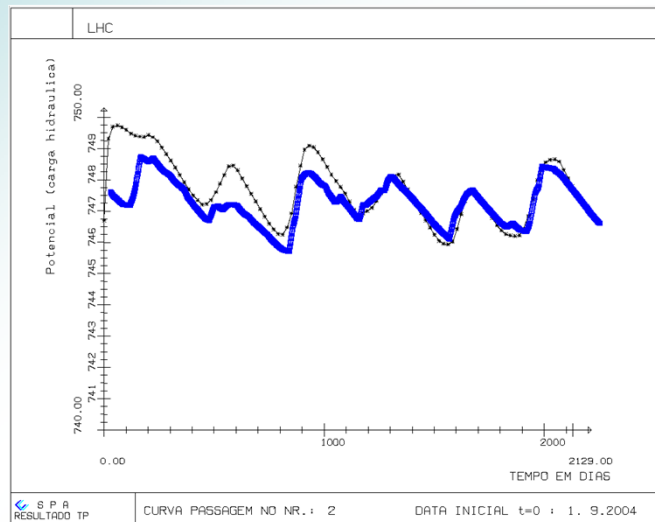
Recarga Direta Acumulada (mm)







Modelo transiente - 6 anos

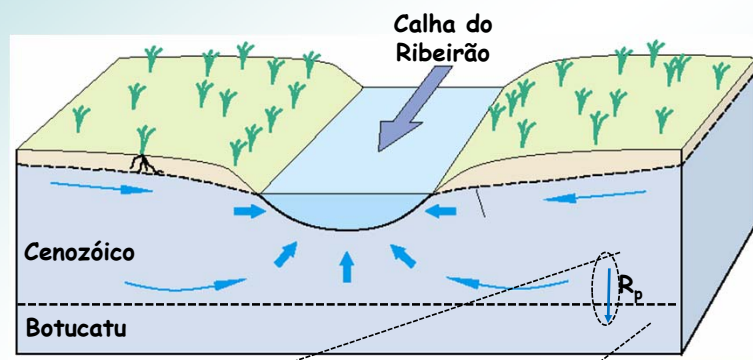


Fonte: Guanabara, 2011

USP



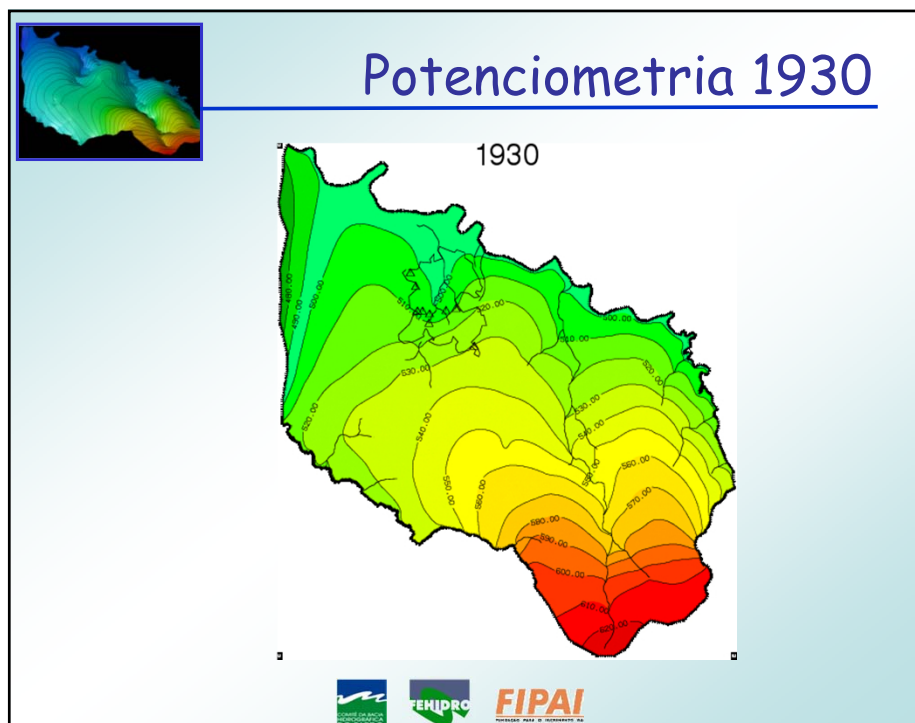
Conclusões

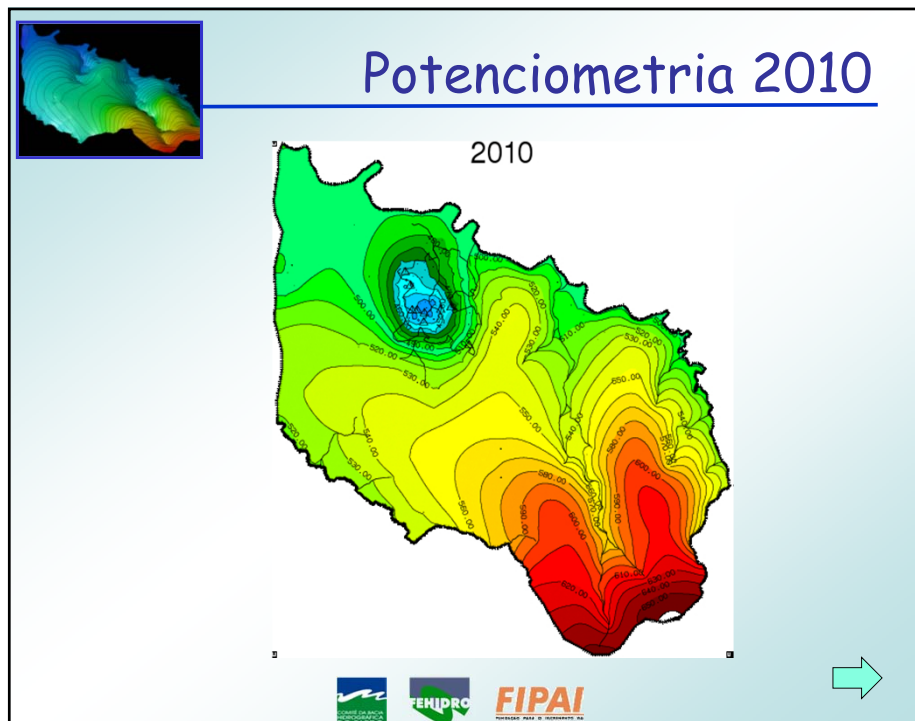
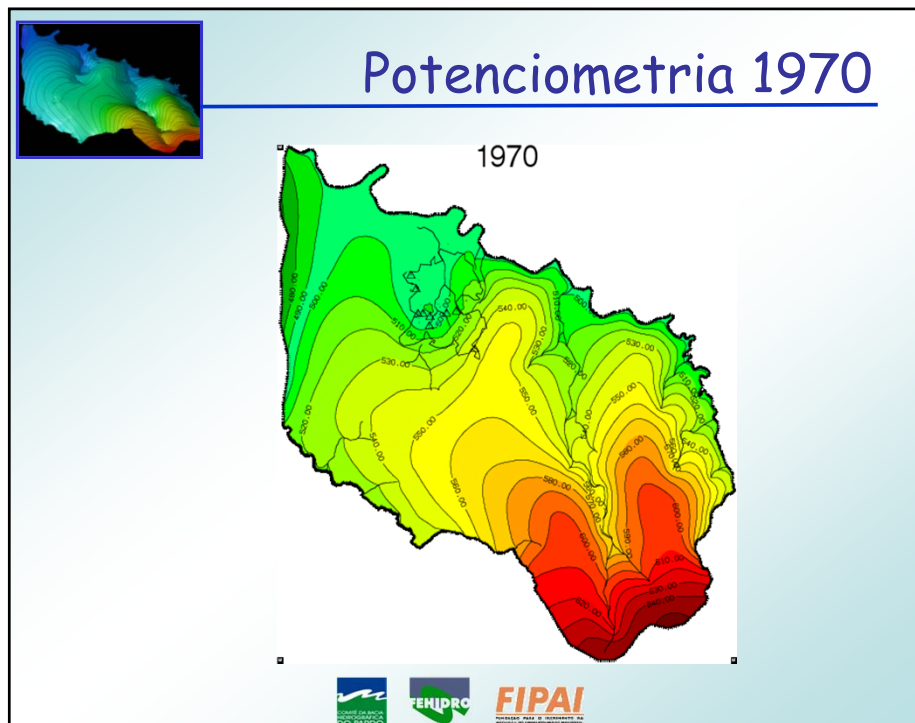


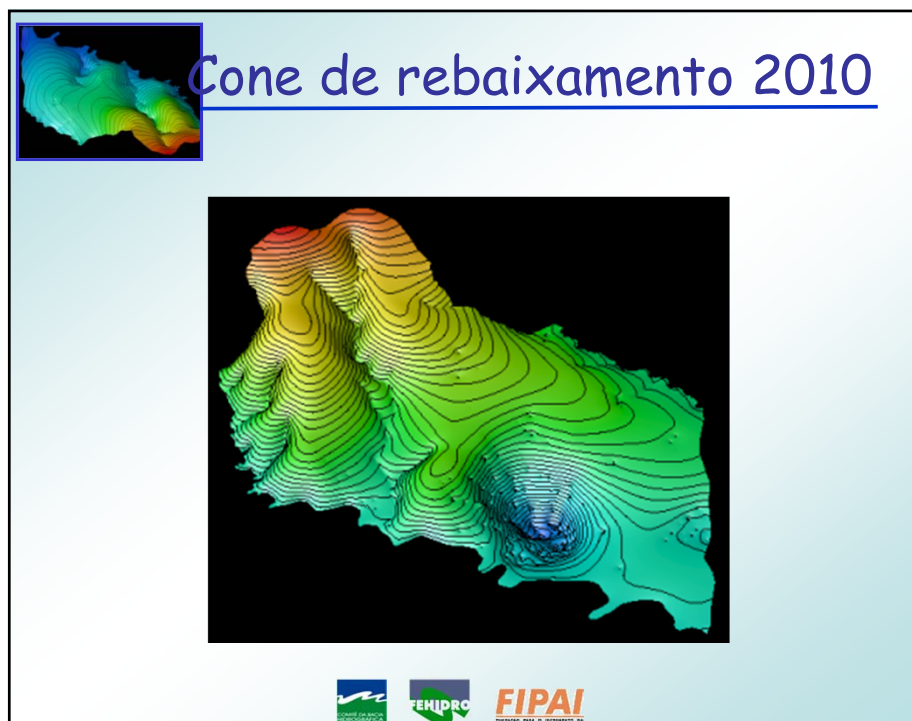
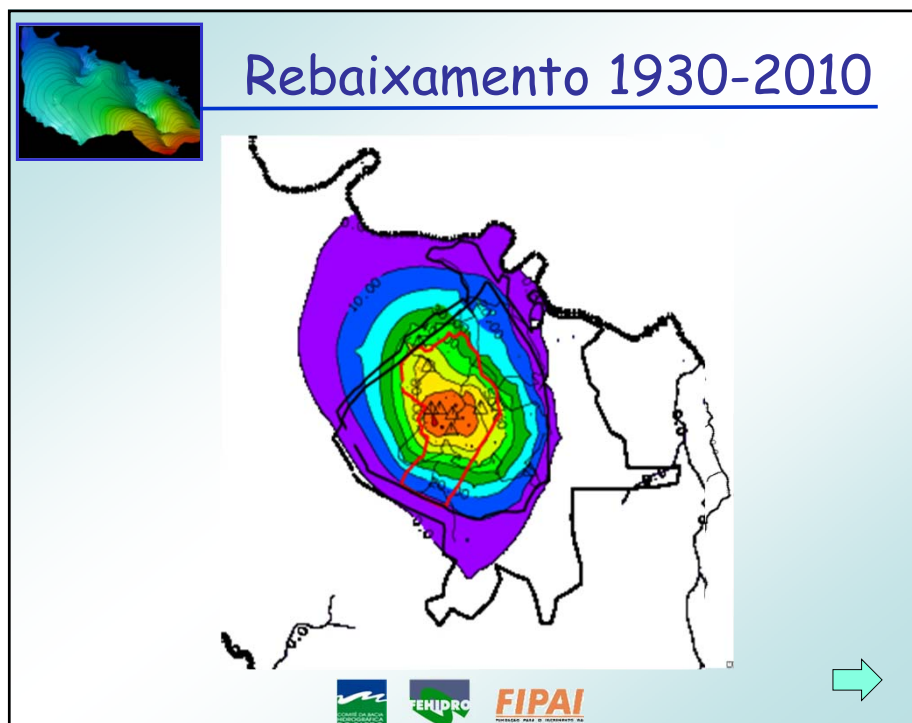
$R_p < 3,0\%$ da precipitação

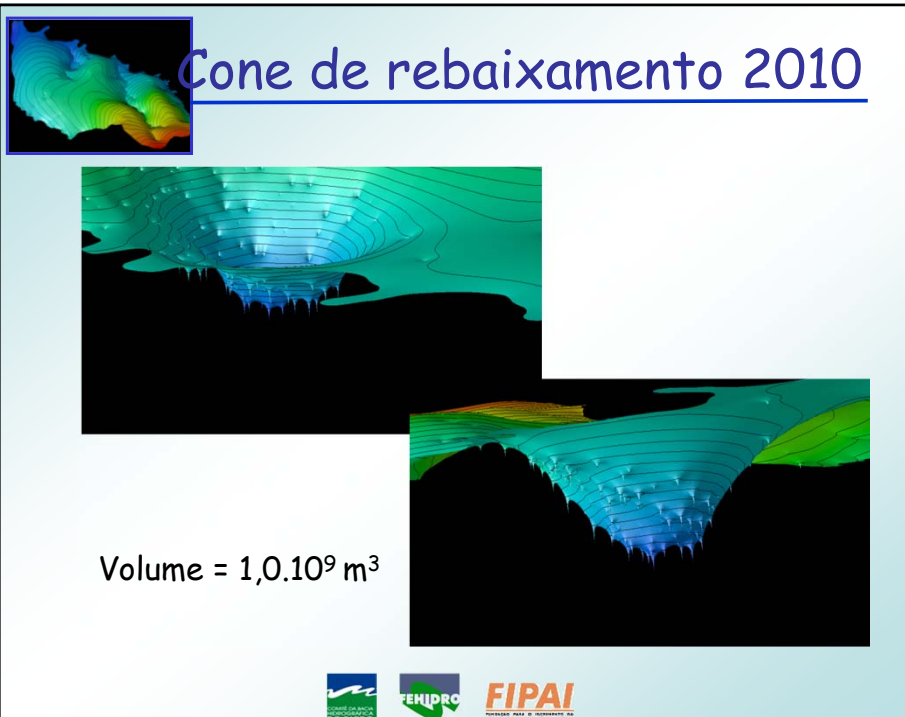
Fonte: Adaptado de Winter, 1998

USP









Obrigado

ew@sc.usp.br

