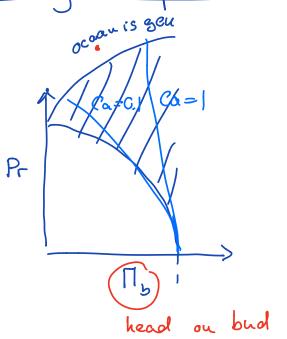
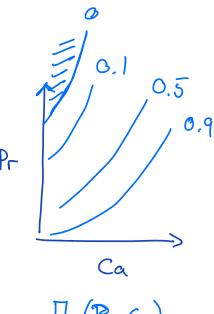
Lecture 26: Wrapping up bits & pieces Logistics: all HW's are done / Thank you o · course evaluations · Thusday → feedback. Last time: Lecture 23: Steady coupled ocean-GW model Lecture 24: Filling crates => BC is integral constraint h(1) ~ Sh'dx' Lecture 25: Mars topography Today: - go over topography live script - Solve problem with surface water coupling numerically with Newton-Raphson

- Summery of what we have learned

Steady GW problem





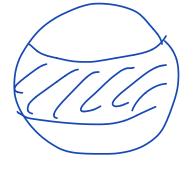
PDE: \$24 -KV. h Vh = 0

ODE: w dhe = (hq/o

Thats it folks ?

Outline Mars GW paper

- 1) Steady solutions for confined & unconfined flow on a sherical shell.
 - · with precip
 - · with reching



rong long residence times short residence times

=> show how head changes with precipalishibahi
learn that comb. of decay of K with depth +

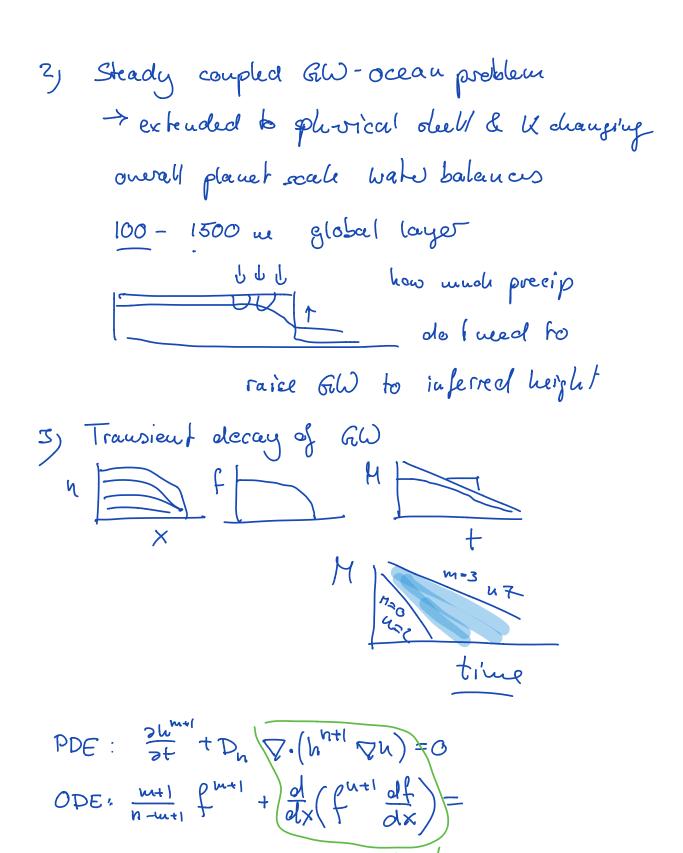
precip near equator makes for a very flat

Gel with steep decline near the edge

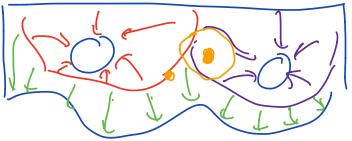
⇒ h ~

V ~

=) residence times



This self similer solve exists on complex geometry



=> allen to map global drainge paterns of Narhian highlengs.