

Oceanography 101, Richard Strickland

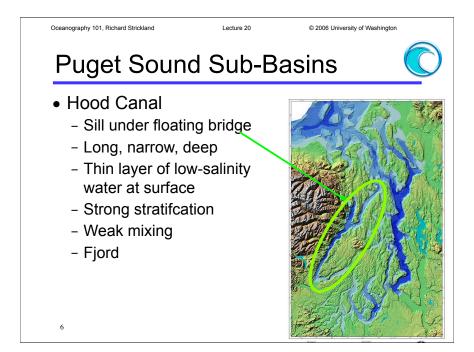
Lecture 20

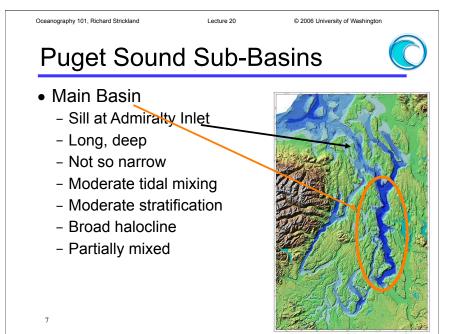
Puget Sound Sub-Basins

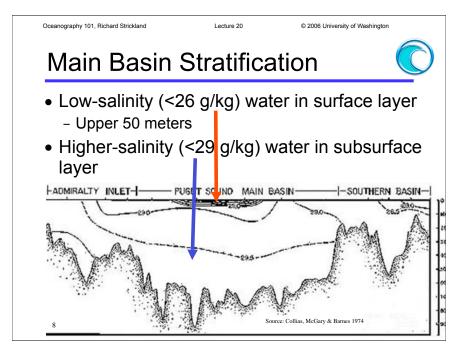
- Whidbey Basin
 - No sill
 - 2/3 of all the fresh water that enters the Sound
 - Skagit, Stillaguamish, Snohomish Rivers
 - Strong stratification
 - Weak tidal mixing
 - Tides must make hairpin turn at south end of Whidbey Island
- ₅ Salt Wedge

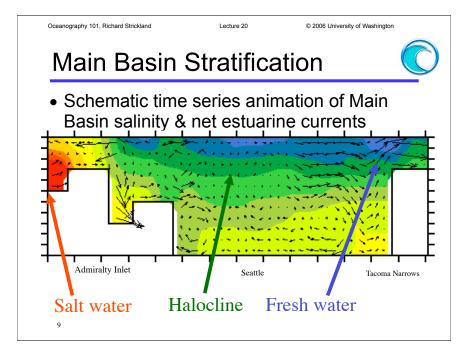


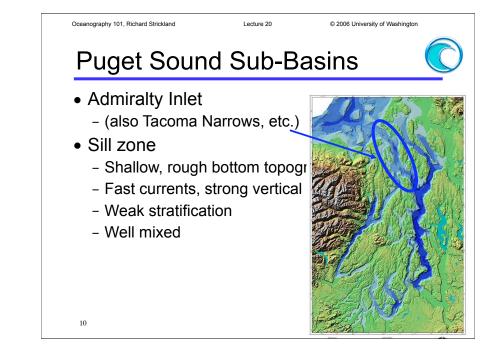
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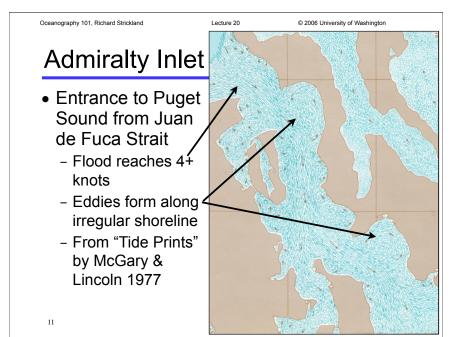


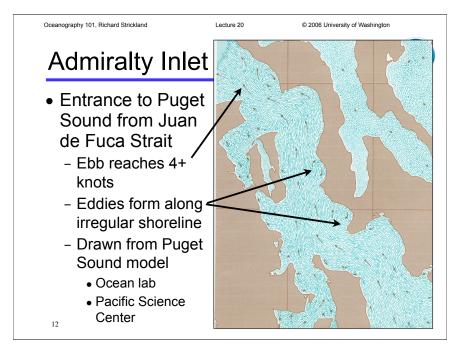


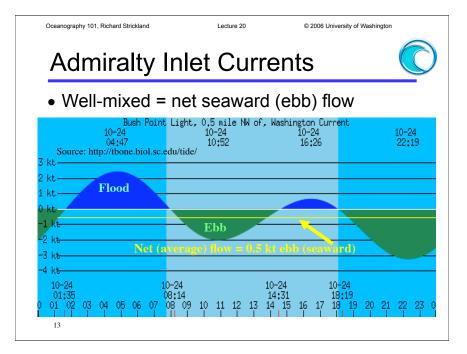


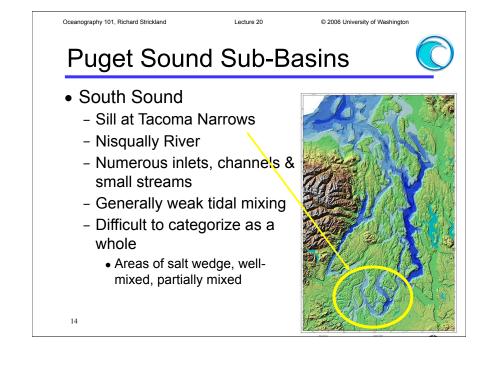


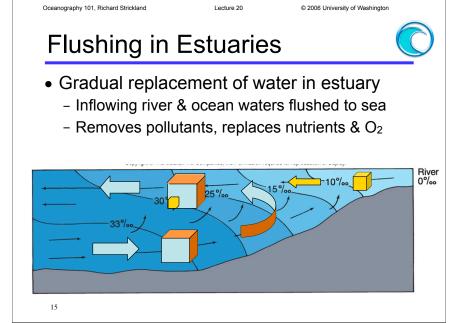


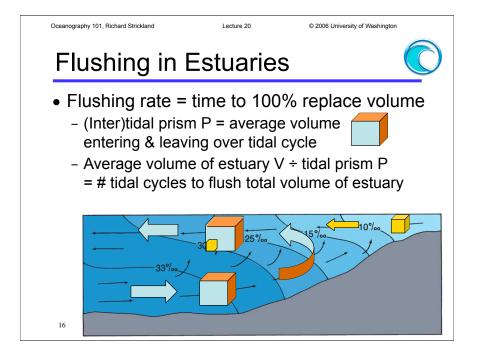


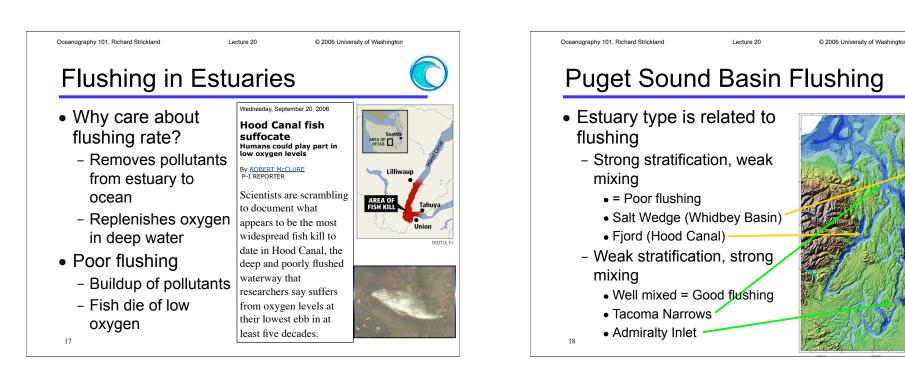


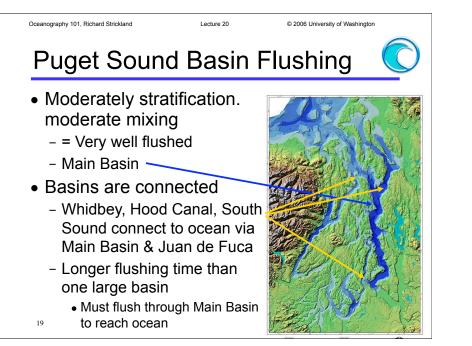














Lecture 20

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Hood Canal dead zone

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- Caused in part by human sewage disposal
- Malfunctioning septic tanks
- Very slow flushing time = 1 year or longer
- Main Basin: so far, so good
 - Receives (treated) sewage of 2.5 million people
 - Fast flushing time = 1–3 months
- New sewage discharge planned for Edmonds
 - Keep it out of the Whidbey Basin
 - Potential for another Hood Canal
- $_{\scriptscriptstyle 20}$ $\,$ \bullet Strong stratification, poor flushing

