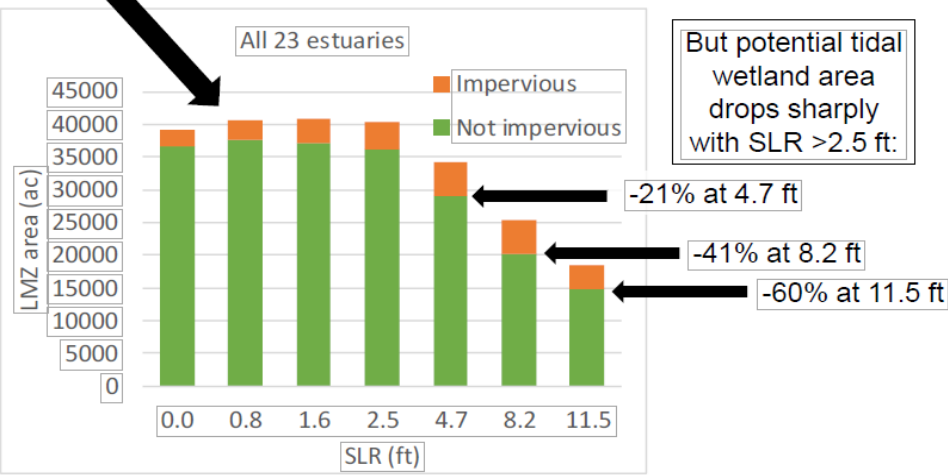


What happens to Oregon's tidal wetlands with sea level rise?

Project covers 23 estuaries S. of the Columbia:

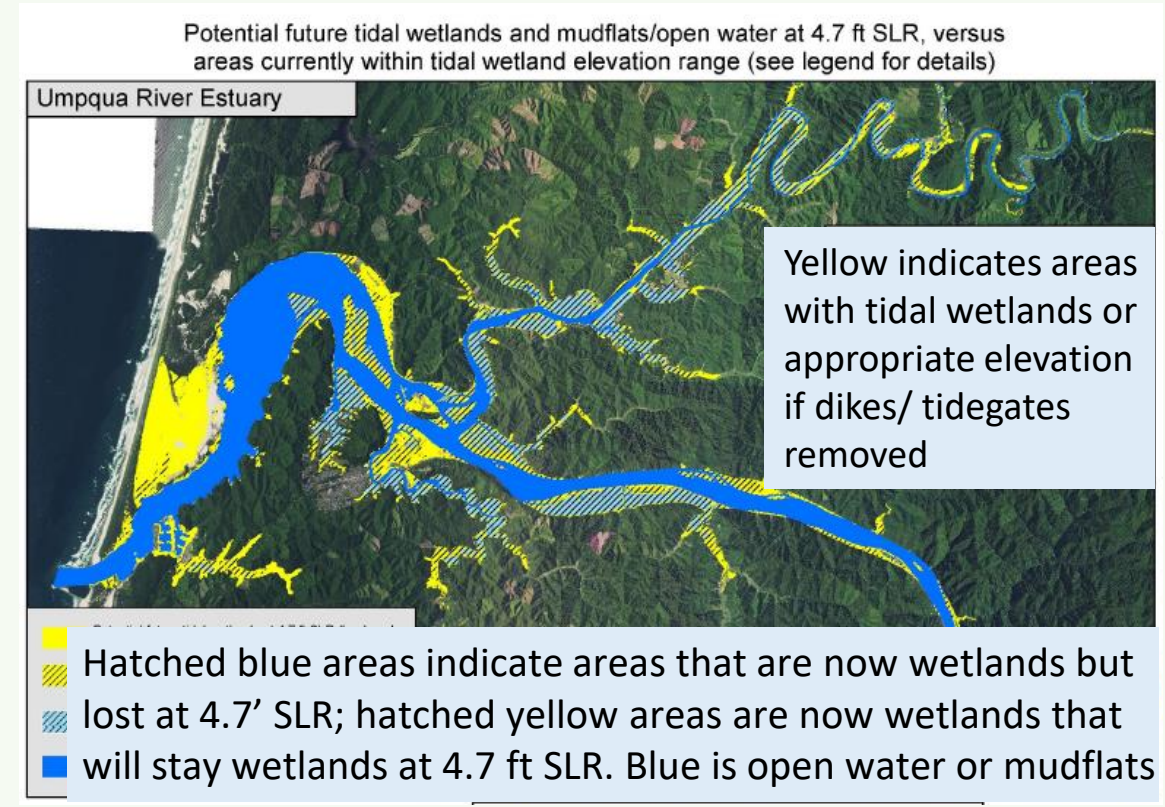
- Uses elevation-based mapping (LIDAR).
- Applies 6 sea level rise scenarios
- Shows areas that could be future tidal wetlands; shows areas that submerge.
- Prioritizes areas for conservation/restoration. The sooner restoration happens, the more chance areas can accumulate sediment and keep up with SLR for longer

Summed across all 23 estuaries, the model shows little change in potential tidal wetland area until >2.5 ft SLR...



But potential tidal wetland area drops sharply with SLR >2.5 ft:

- 0.8' SLR ~2030
- 1.6' SLR ~2050
- 2.5' SLR ~2070
- 4.7' SLR ~2100
- 8.2' SLR ~2130
- 11.5' SLR ~2160



- Map above show locations of potential future tidal wetlands (yellow) around 2100.
- Bar charts don't show how the locations of future tidal wetlands differ from current tidal wetlands
- At 4.7 ft SLR, 2/3 of potential tidal wetlands are in different places from current tidal wetlands
- At 8.2 and 11.5 ft SLR, there is no overlap between locations of future and current tidal wetlands.



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