

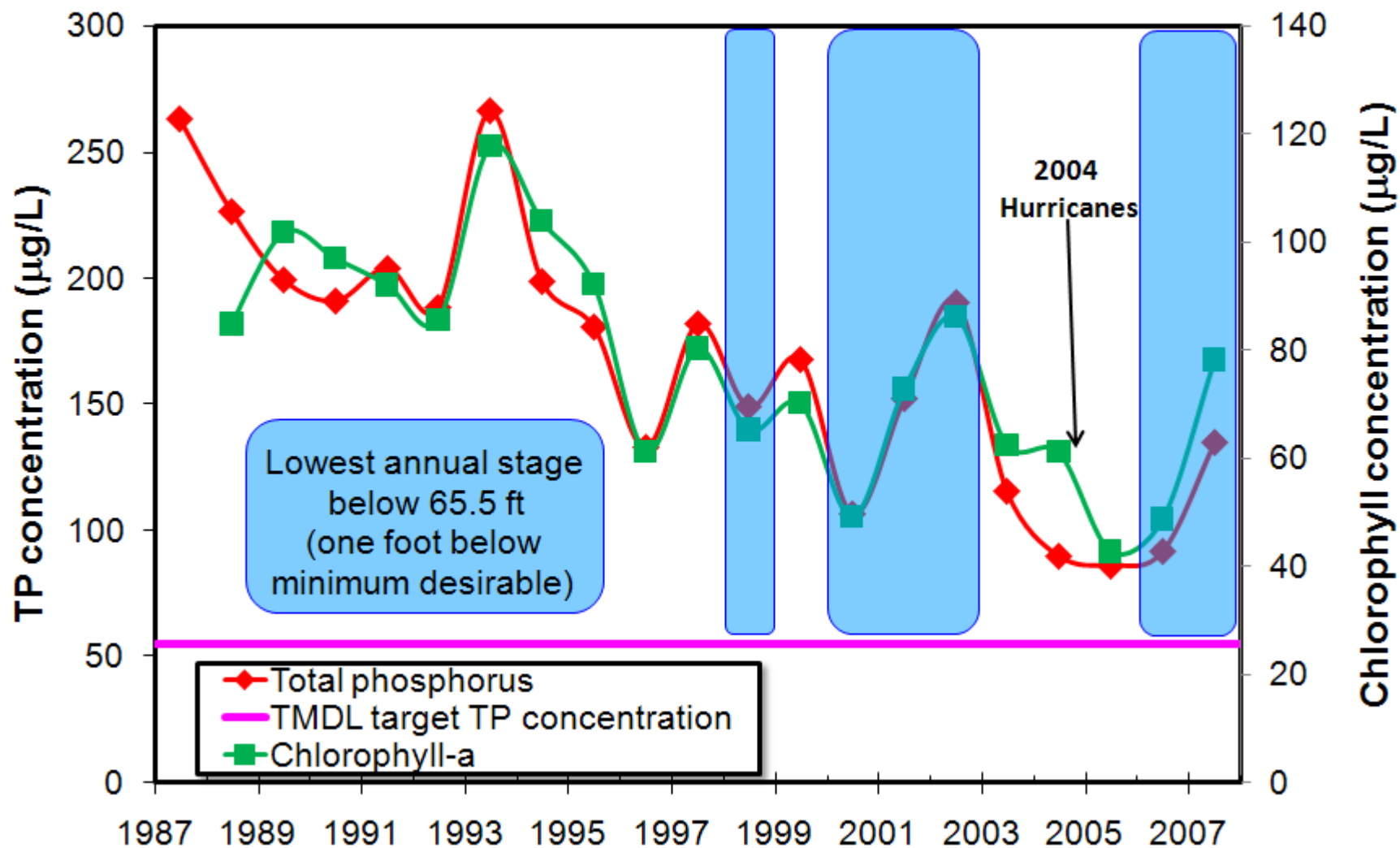
SJRWMD monitoring status

- Water quality monitored in upper Ocklawaha River basin (UORB) since early 1980s
- Restoration areas, lakes, tributaries in UORB
- Generally monthly sampling
- Water quality, plankton, submersed aquatic vegetation, water levels
- Monitoring network re-evaluated annually



St. Johns River
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Average annual Lake Apopka concentrations of total phosphorus and chlorophyll-a



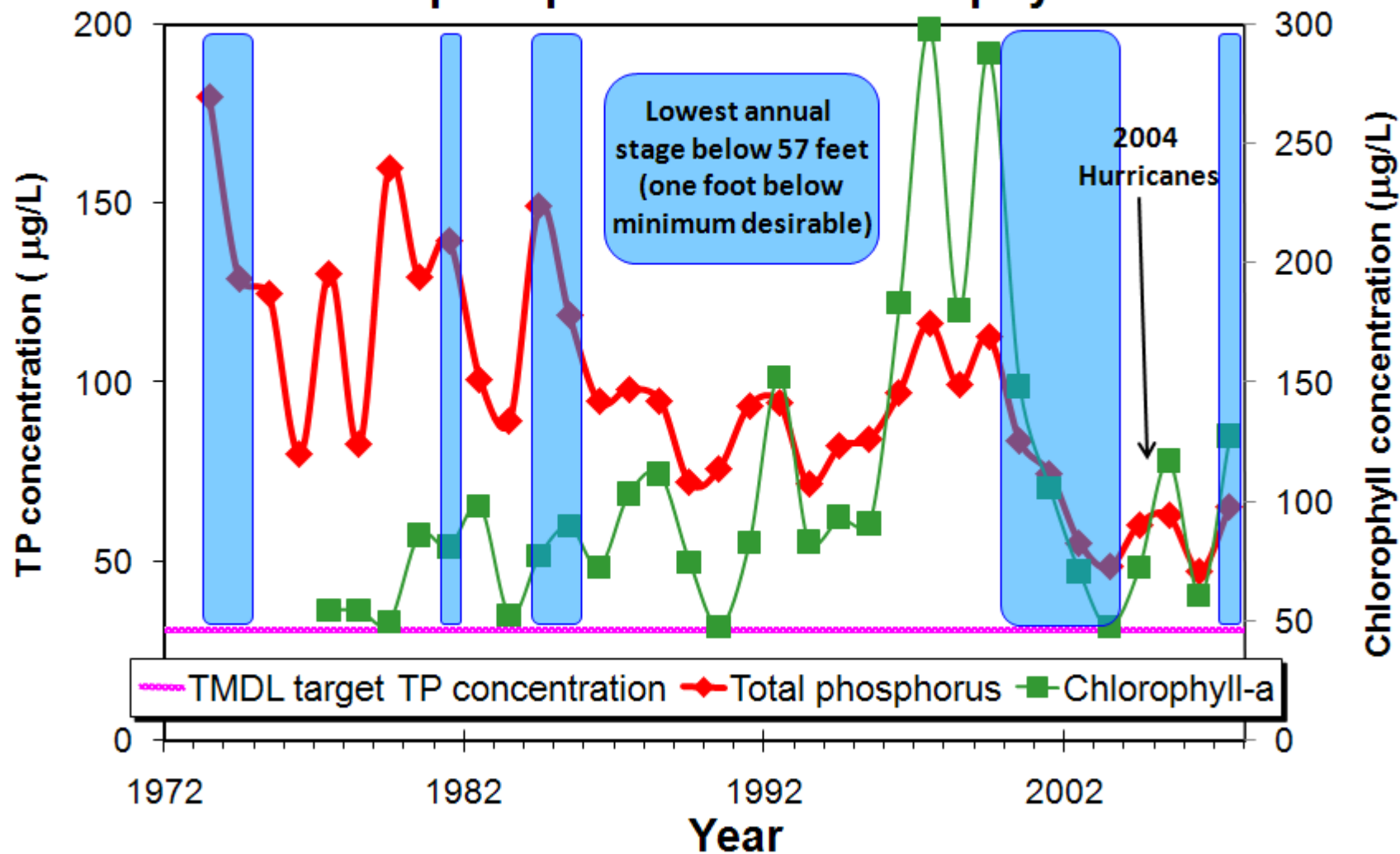
Why does water quality tend to deteriorate when water levels are low?

- Little downstream discharge
 - Nutrients entering lake from watershed and bottom sediments tend to accumulate
 - Algae growing in water tend to accumulate
- Shallow water leads to more resuspension of bottom sediments
- Wetland and lake sediments exposed - release nutrients
- Algae blooms reduce oxygen levels and increase pH, which may accelerate phosphorus release from sediments

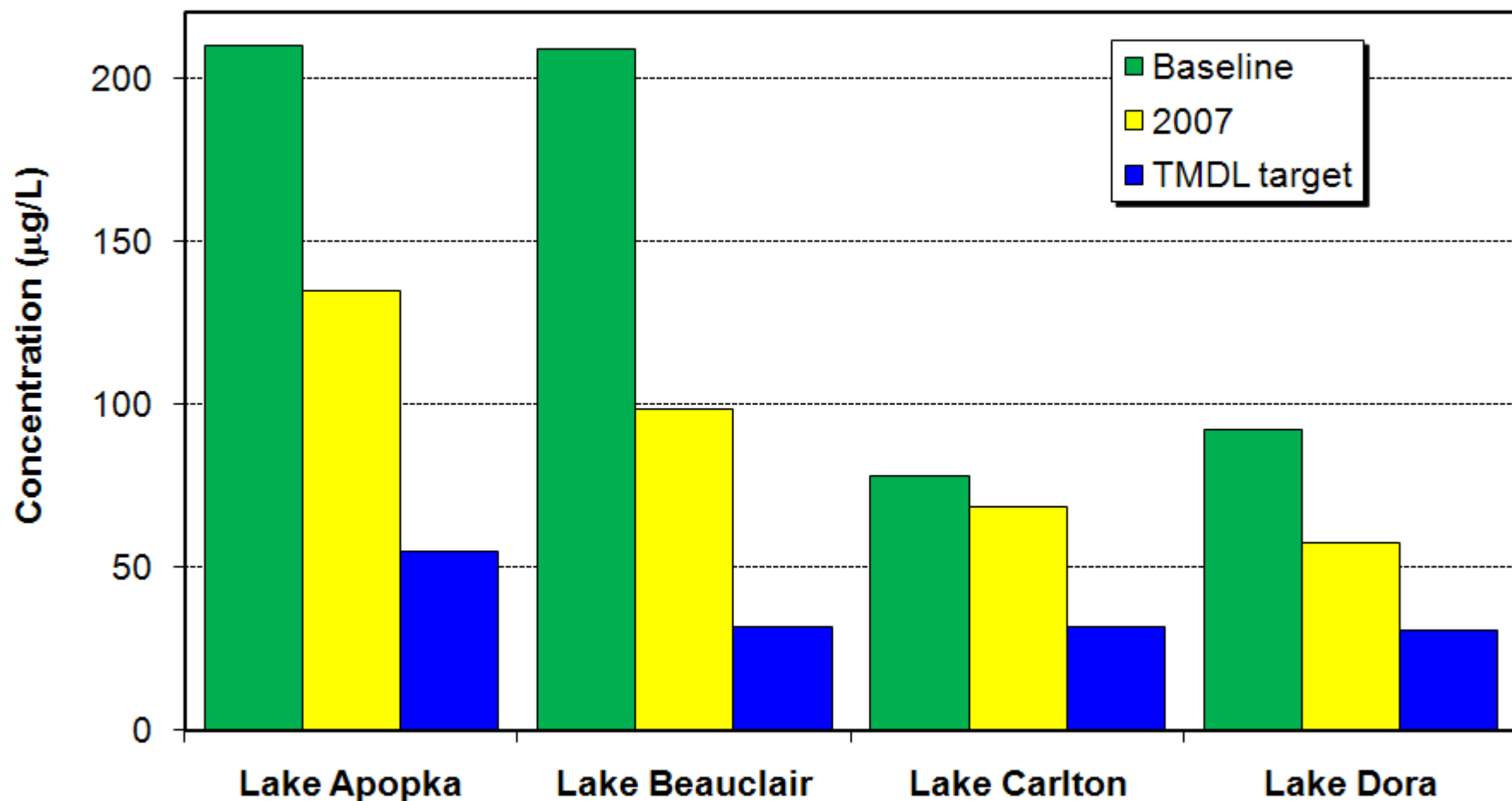


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Average annual center Lake Griffin concentrations of total phosphorus and chlorophyll-a



Average baseline period, 2007, and TMDL target total phosphorus concentrations



Average baseline period, 2007, and TMDL target total phosphorus concentrations

