



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 25th June 2018

Weather & tide conditions: Conditions were fine with up to 5% cloud cover, and a north-easterly breeze of up to 10 knots. The predicted tides at Guildford were 1.18 m (high tide) at 09:56 and 0.76 m (high tide) at 20:42. Perth recorded 6.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were operational the week prior to sampling.

Lower Swan/Canning Estuary (FPI to NAR): The Lower Swan Estuary was mostly hypersaline to saline throughout with the exception of brackish surface water at NAR. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 15.1 to 19.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline throughout. Surface water was well oxygenated at all sites while bottom water was oxygenated at NIL and hypoxic from STJ to RON. Water temperature ranged from 14.9 to 17.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to KIN and brackish from KMO to POL. Surface water was well oxygenated at all sites while bottom water was hypoxic from BWR10 to SUC, low in oxygen from MEAD to CAV and well oxygenated from REG to POL. Water temperature ranged from 13.3 to 17.1°C.

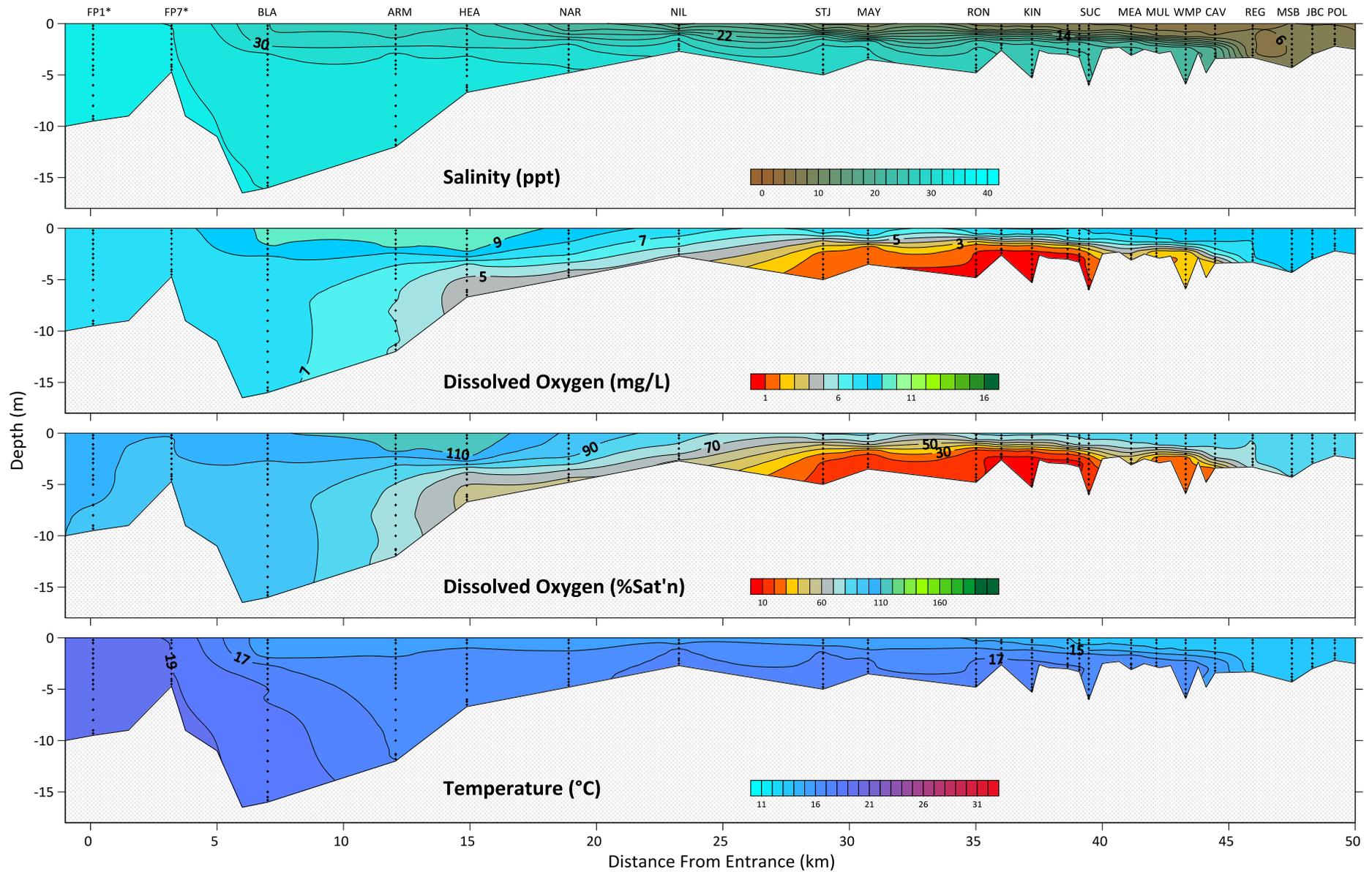
Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

Swan River Estuary - Physical-Chemical Profile - 25th June 2018

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*Data for sites FP1 (Harbour Entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority