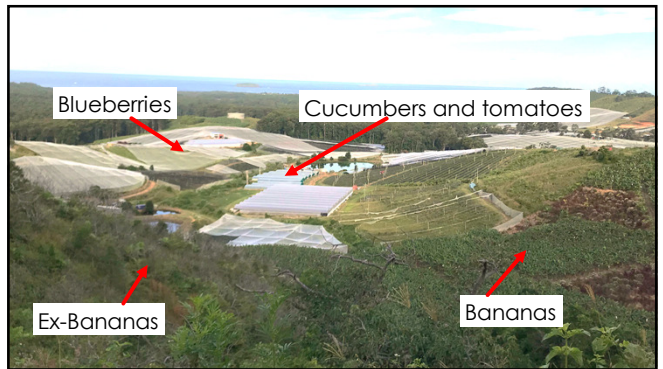


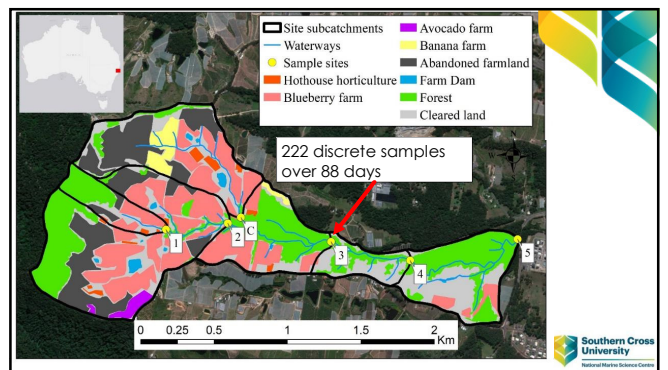
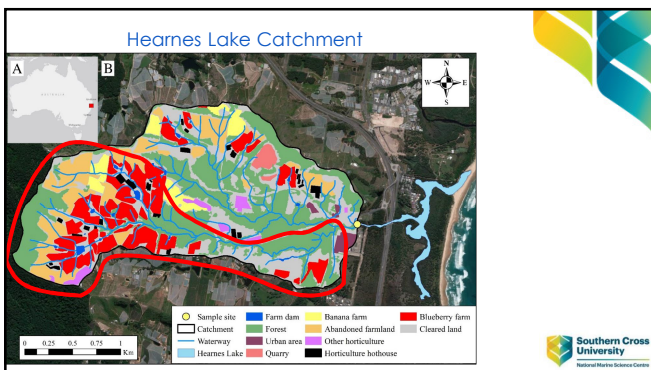
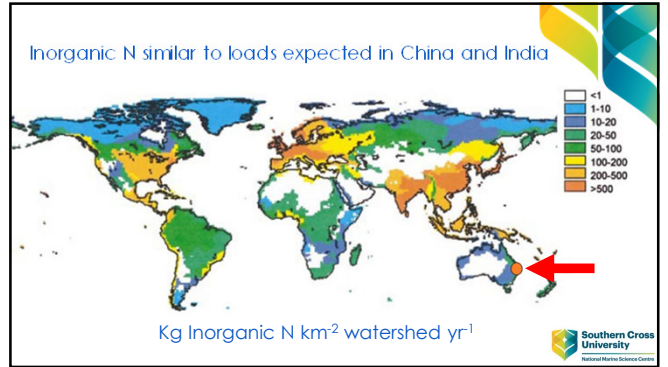
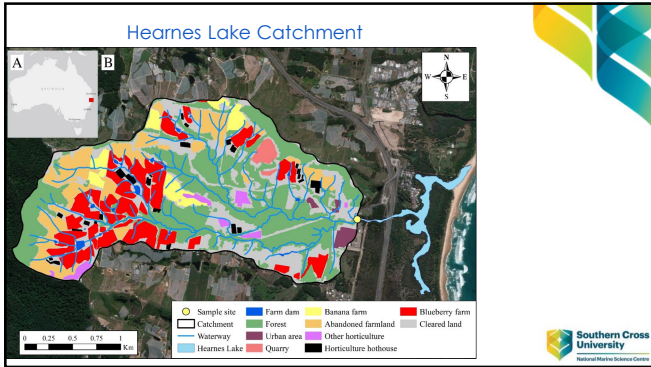
# Rainfall drives nitrogen transport and reduced attenuation in a coastal horticultural catchment

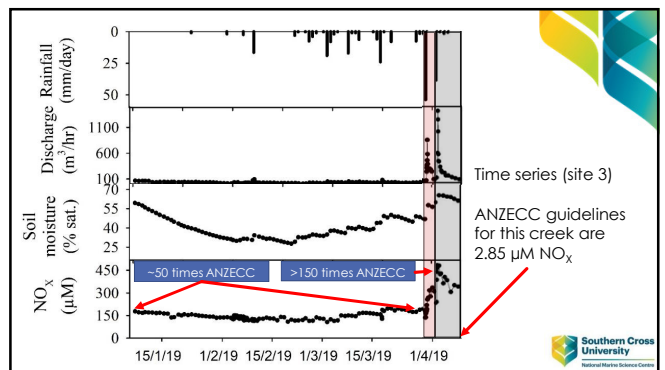
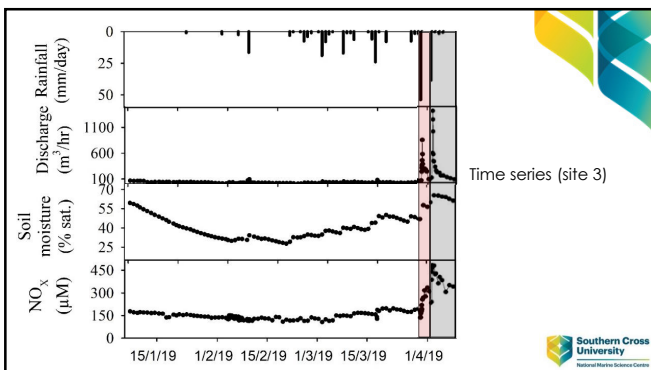
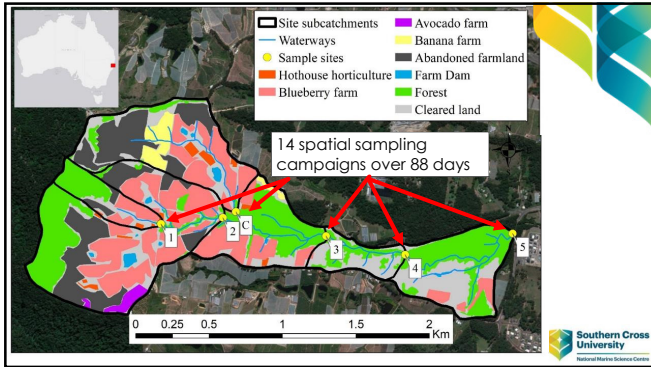
**Shane White**

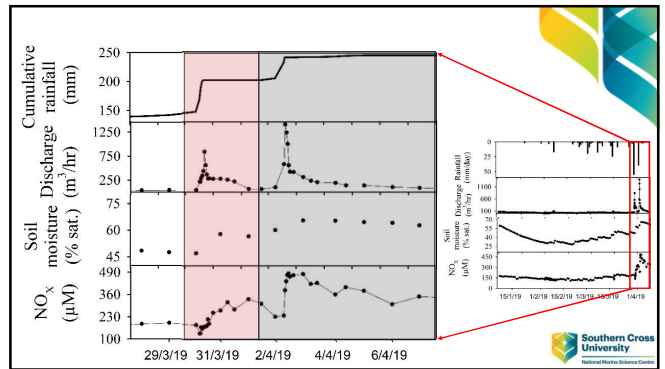
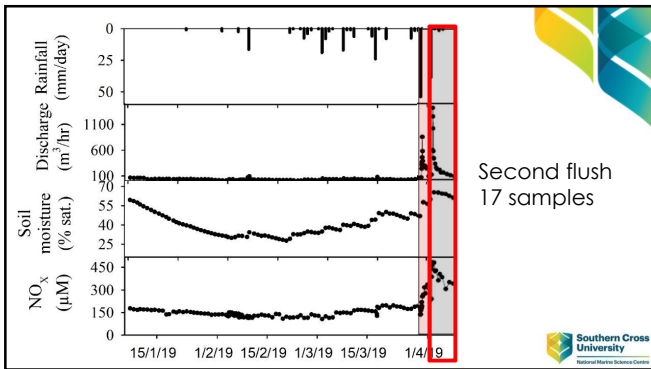
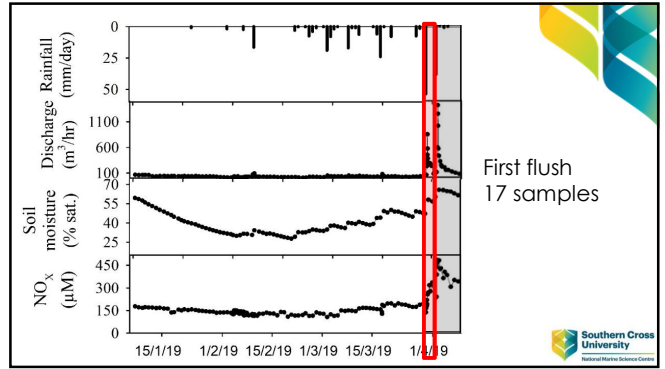
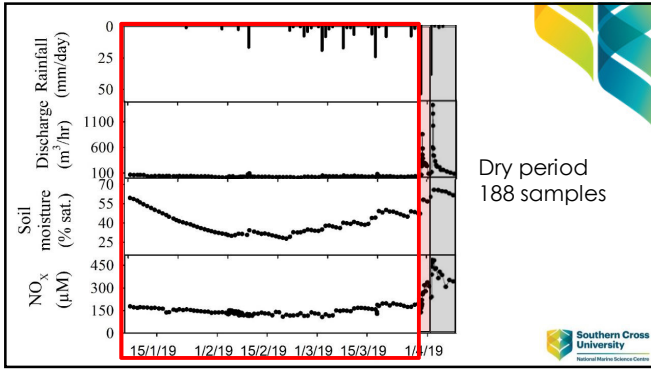
Prof. Isaac Santos, Stephen Conrad,  
Prof. Christian Sanders, James Tucker,  
Samantha Hessey

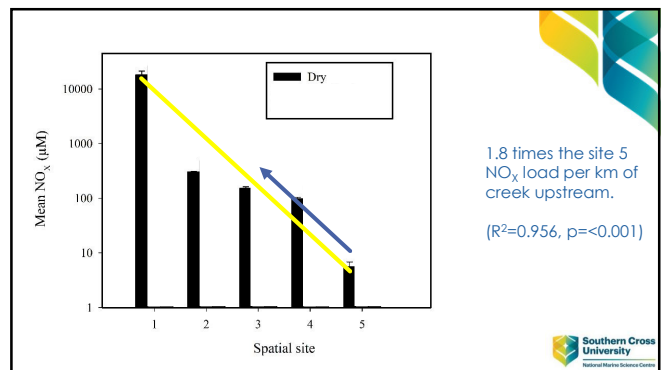
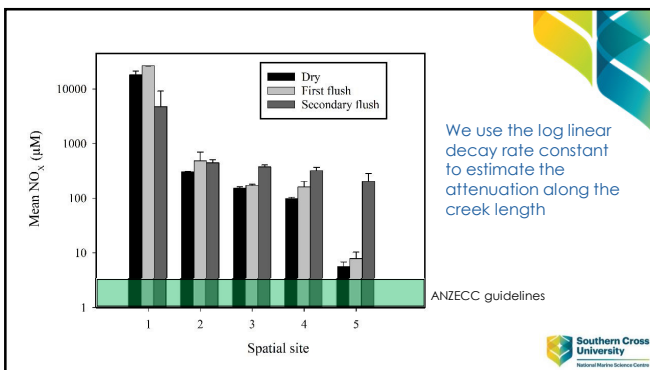
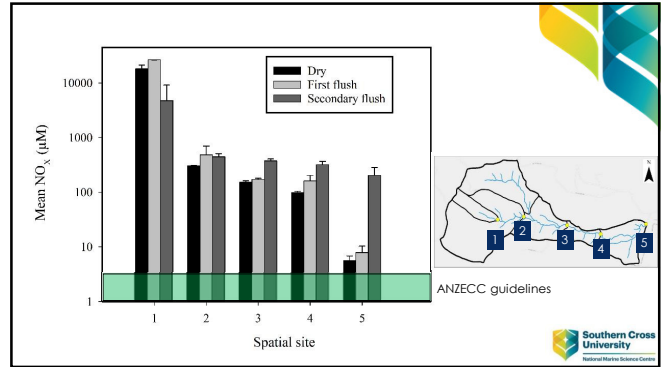
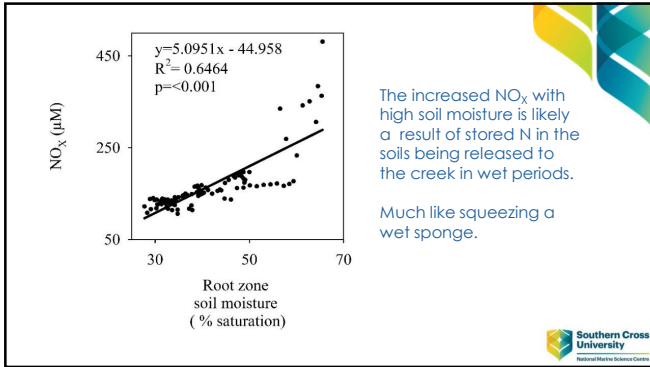
 @Barefoot\_Lab

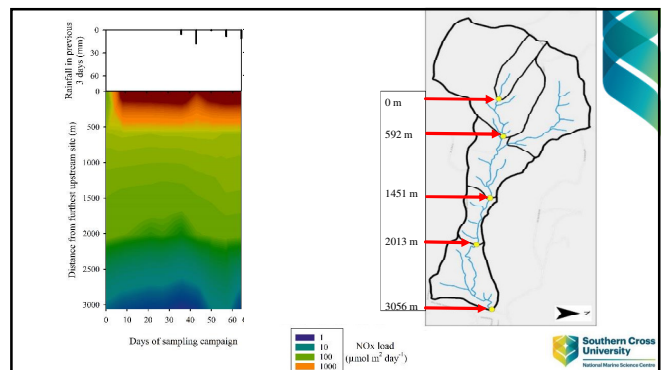
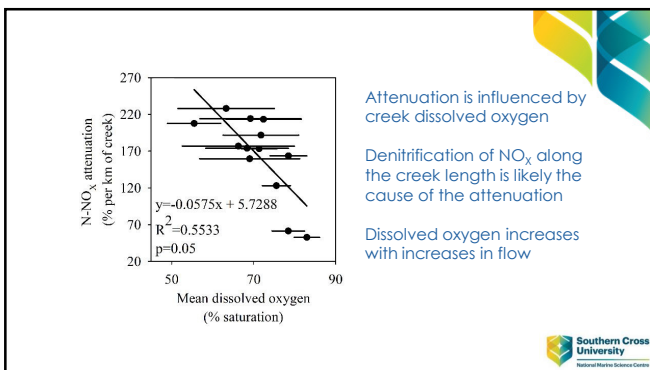
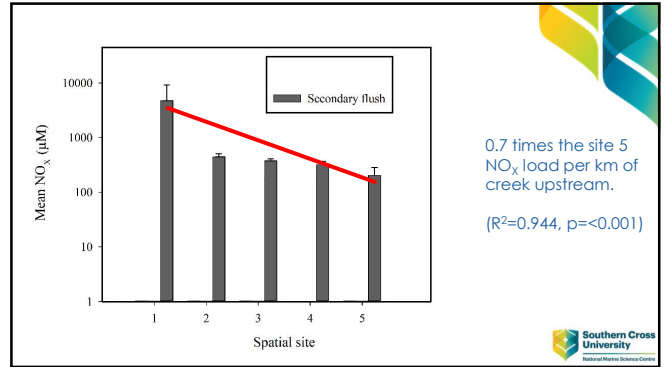
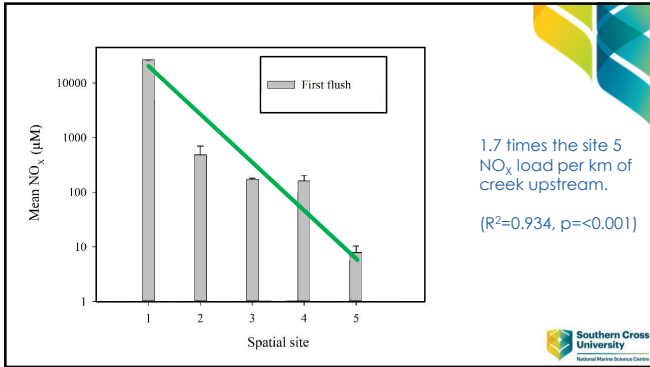


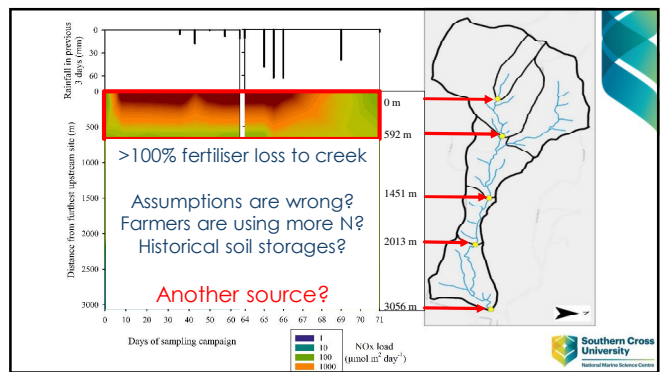
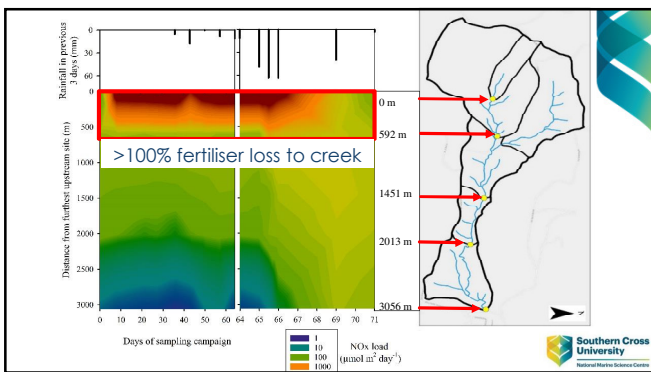
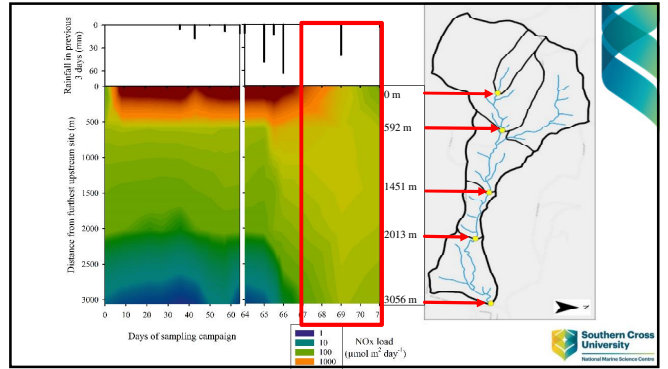
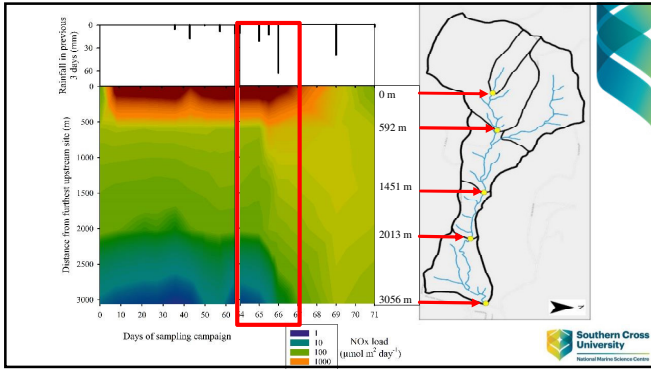


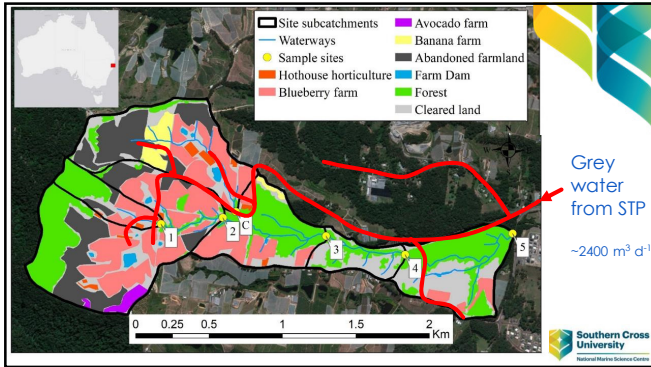












### Summary

NO<sub>x</sub> was ~50 times ANZECC guidelines in dry periods and >150 times guidelines in rain at the time series site.

Significant nitrate attenuation between Site 1 (~5000 times ANZECC) and Site 5 (~17 times ANZECC).

The origin of NO<sub>x</sub> is likely the coupled influences of episodic flushing of soil N, application of sewage greywater and fertilisers, as well as denitrification and nitrification instream.

The high variation in the observations between pre and post rain indicates that in Australian waterways, there is a strong influence of periodic hydrology.

