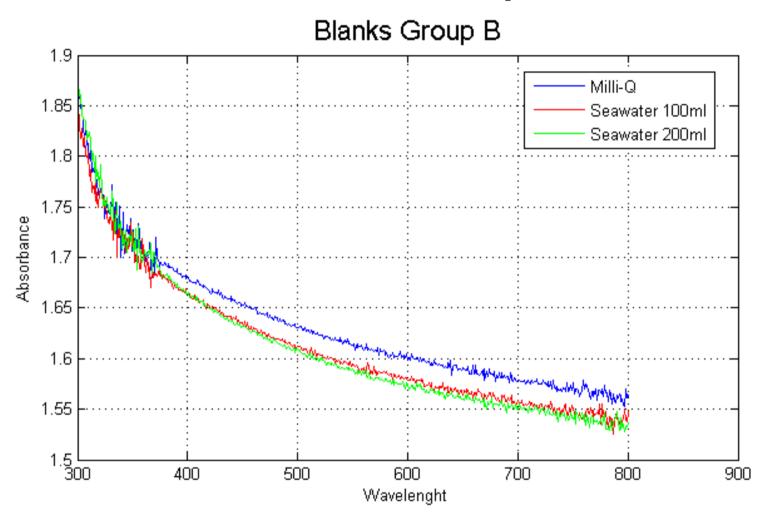
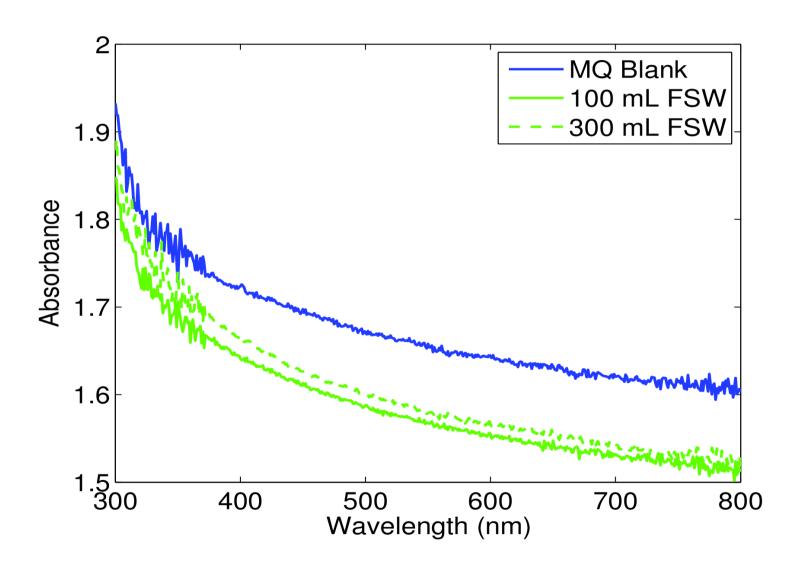
1. Blanks Comparison



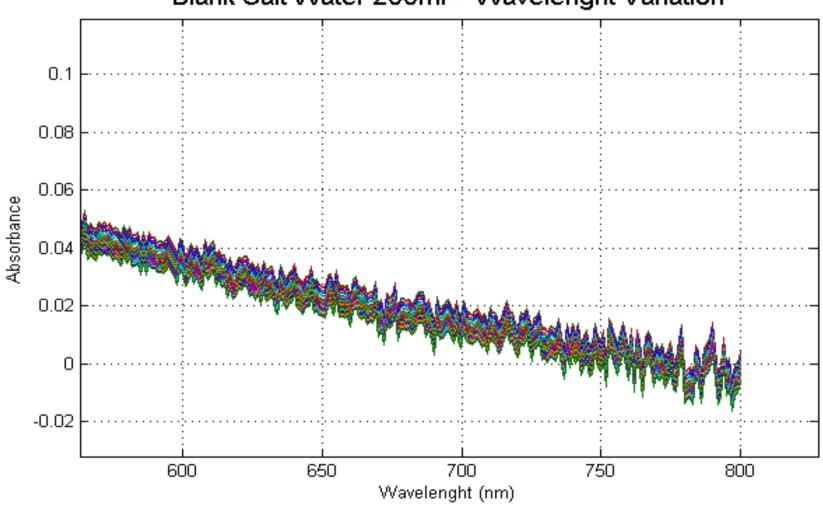
Milli-Q water was consistently higher than the Sea Water blanks Ideally, we would consider the Sea Water blanks at the same volume for each filter.

1. Blanks Comparison

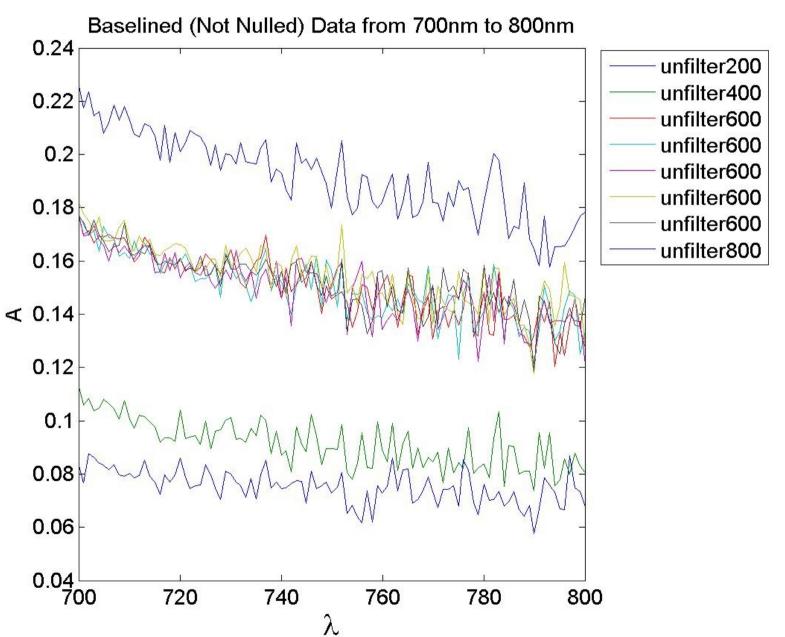


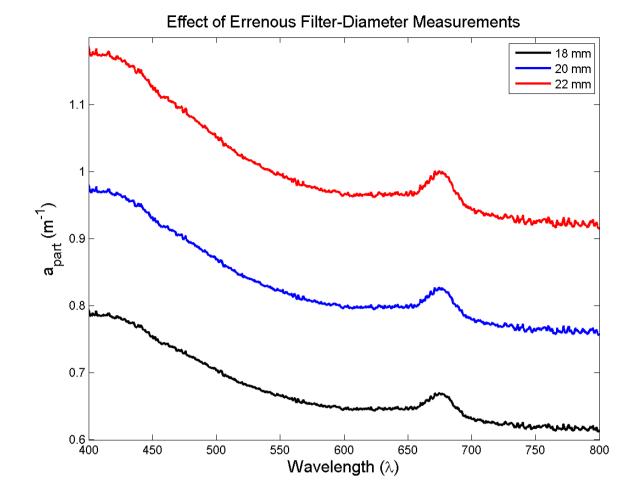
2. NIR Blanks

Blank Salt Water 200ml - Wavelenght Variation



2. NIR Samples



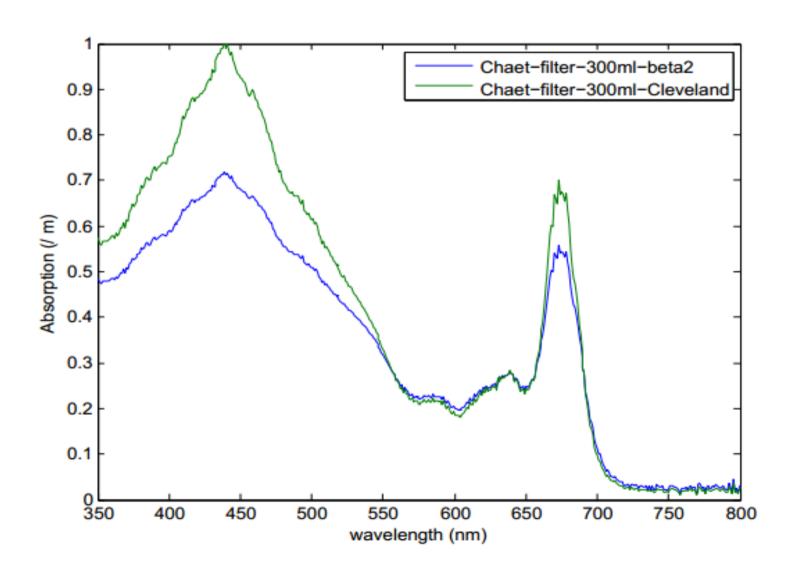


Question 3: What is the effect of an error in the measurement of the filter diameter? (A = π r²)

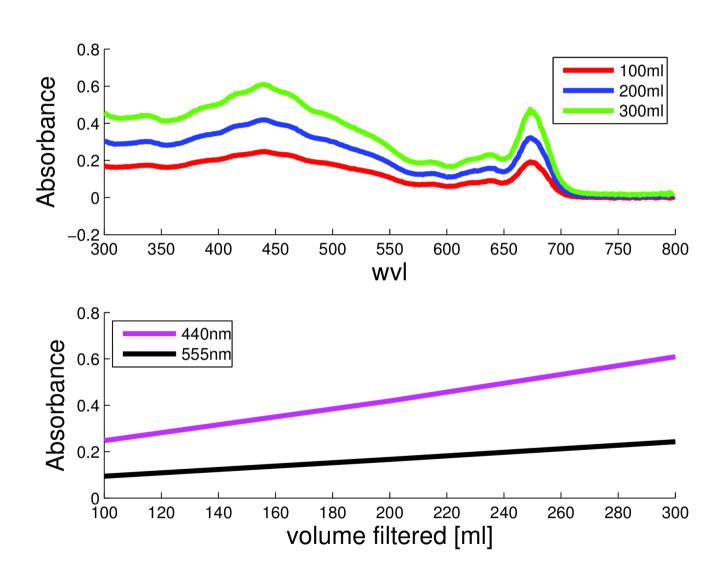
An error in the measurement of the filter diameter causes an *apparent* change in optical pathlength without an associated *real* change in Asample. Therefore you get an inaccurate calculation of total particulate absorption (apart) where normally apart is independent of pathlength.

For this sample profile (800 mL of DRE field water, chaetoseros), a 10% error in sample diameter resulted in \sim 20% error in apart. It did not appear to change the shape or magnitudes of the curves.

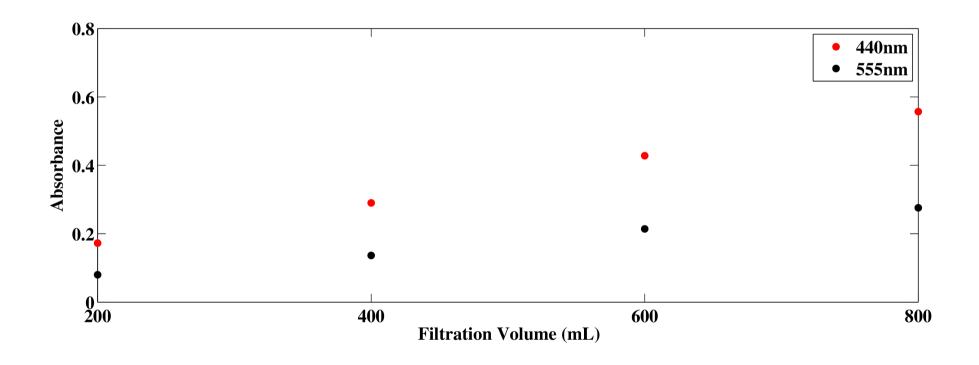
4. Beta formulations



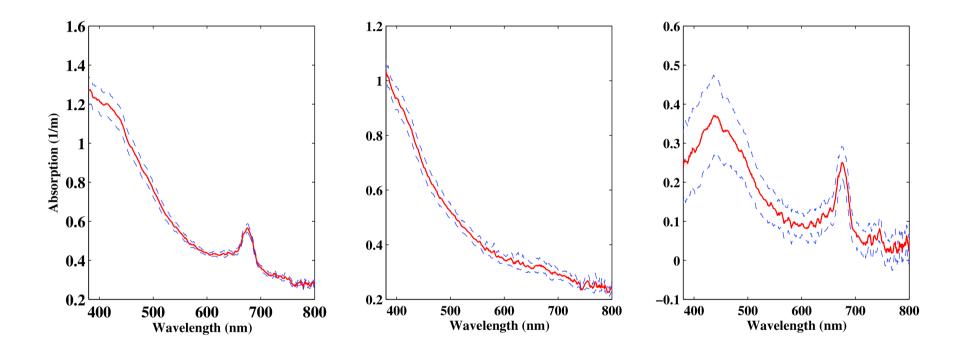
5. Absorbance vs Volume



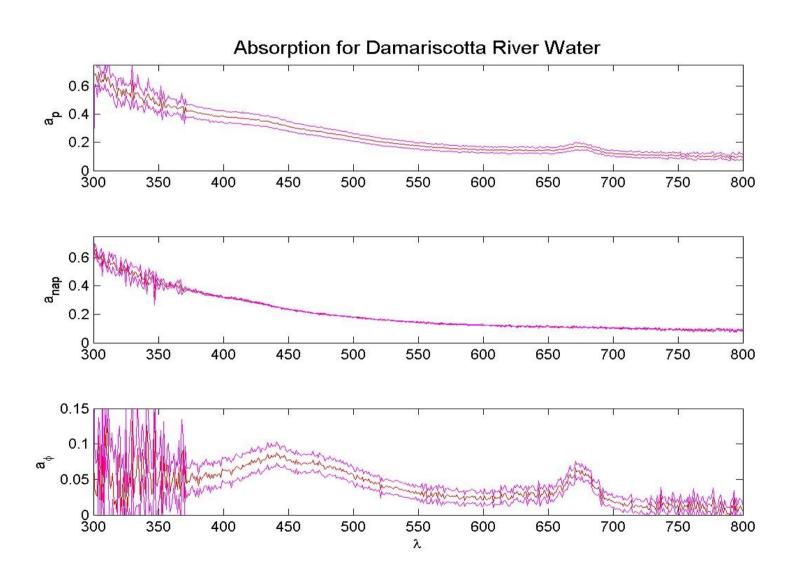
5. Absorbance vs Volume



6.1 DRE samples



6.1 DRE Samples



6.2 Spectral Slopes

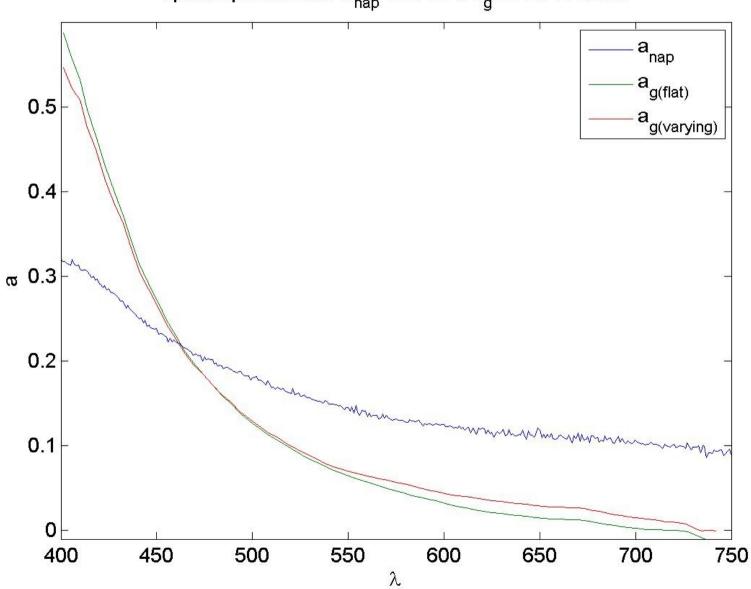
	DRE	Culture
NAP (spec)	0.0042 0.0050	0.0094
ag (acs)	0.0141 0.0155	N/A

Lab 2 Supplement

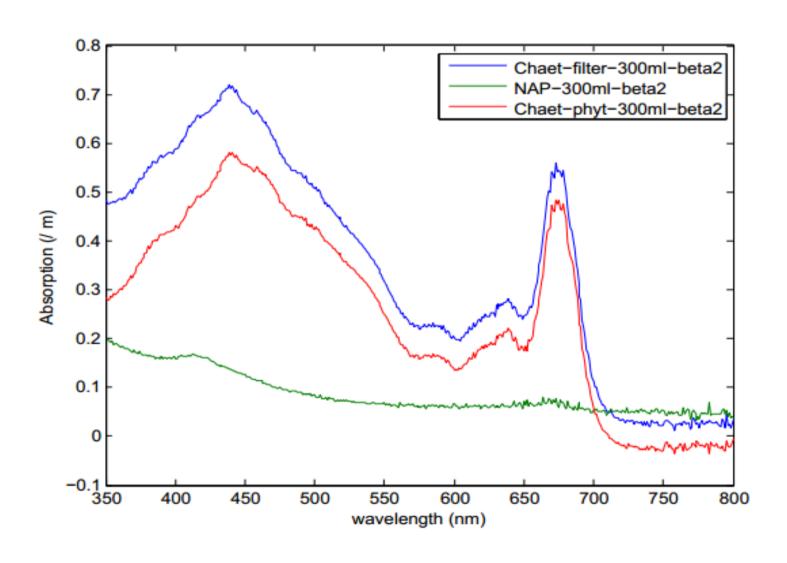
	DRE 0.7/0.2 micron	Biscay
AC-9	0.0138	N/A
AC-S (25)	N/A	0.0121
AC-S (16)	0.0131	N/A
Spec 1cm	0.006/0.005	0.0039
Spec 5cm	0.0153/0.0102	0.0120

6.2 Spectral Slopes

spectrophotometer $\mathbf{a}_{\mathrm{nap}}$ and ac-s \mathbf{a}_{g} for DRE water

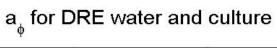


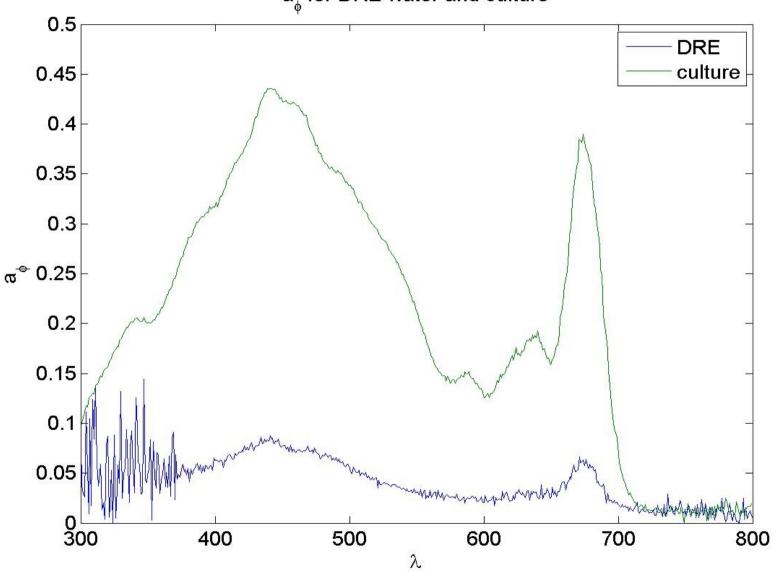
6.3 Cultures



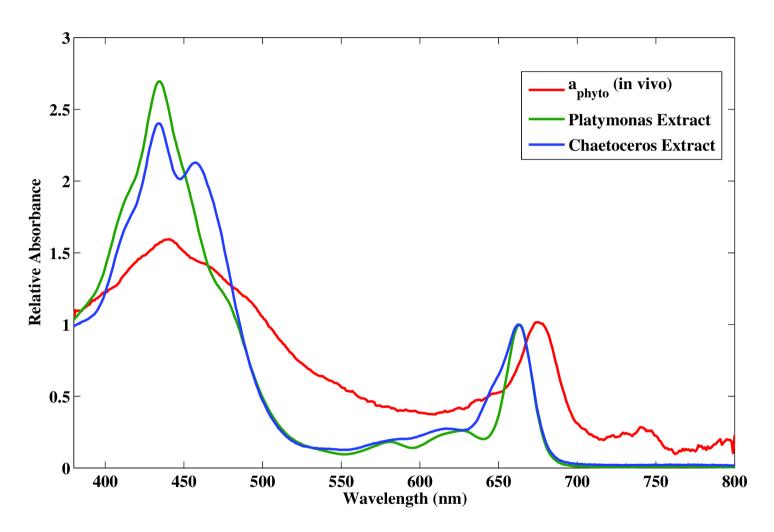
6.3 Culture

6.4 Culture





12. Extracted comparison



Shift when dissolved acetone.