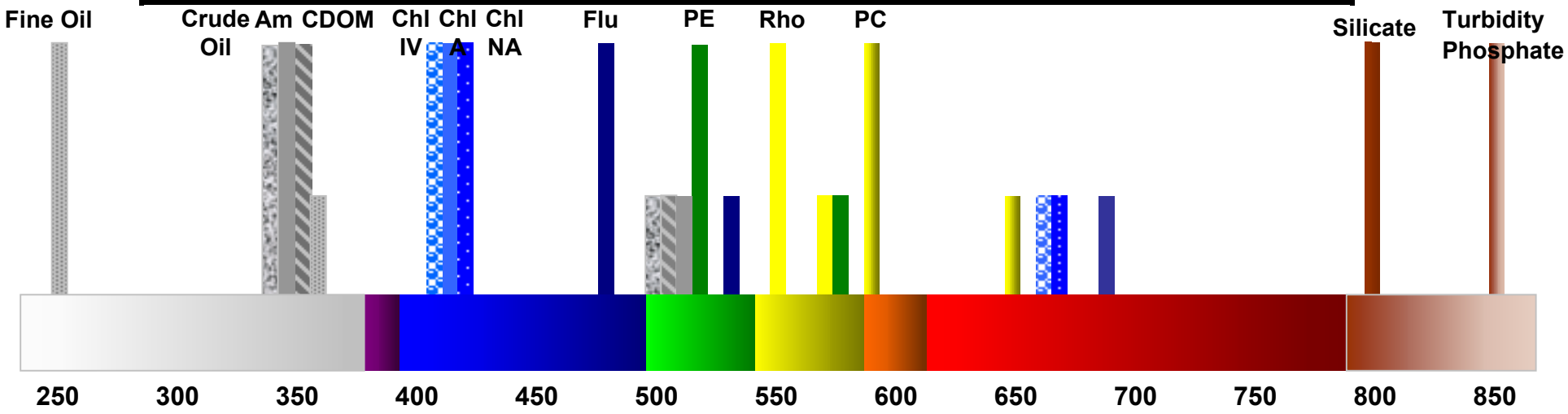
TURNER DESIGNS

Reliable Instruments for an Unreliable World

Application Wavelengths

APPLICATIONS	LIGHT SOURCE	EXCITATION	EMISSION
Oil, Fine	Deep Ultra Violet	254 nm	350/100 nm
Oil, Crude	Ultra Violet	350 nm	505/190 nm
Ammonium (Am)	Ultra Violet	350 nm	505/190 nm
CDOM	Ultra Violet	365 nm	505/190 nm
Chlorophyll *a in vivo* (Ch IV)	Blue	430 nm	>665 nm
Chlorophyll *a* Extracted Acidification (Ch A)	Blue	430 nm	685/50 nm
Chlorophyll a Extracted Non-acidification (Ch NA)	Blue	430 nm	680/10 nm
Fluorescein Dye (Flu)	Blue	485 nm	540 nm
Cyanobacteria Marine Phycoerythrin (PE)	Green	540 nm	575 nm
Rhodamine Dye (Rho)	Green	550 nm	>570 nm
Cyanobacteria Freshwater Phycocyanin (PC)	Yellow	590 nm	>645 nm
Silicate Absorbance	Infra Red	810nm	NA
Turbidity	Infra Red	850 nm	850 nm
Phosphate Absorbance	Infra Red	880 nm	NA



**The Application Wavelength Grid should be used as a schematic. Wavelengths will vary for some applications.*