

Measurements from R/V Kilo Moana:

Measurement	Location	Sampling Frequency	Point of Contact	Requirements
1. METS 2. ADCP 3. CT 4. Chlorophyll fluorescence 5. CTD w/ bottles 6. Sky radiance	1. K/M Mast 2. K/M Hull 3. K/M Underway 4. K/M Underway 5. K/M Vertical Profiles 6. Mast	1. Continuously underway 2. Continuously underway 3. Continuously underway 4. Continuously underway 5. On station, daylight hours 6. If necessary	1. Tommy 2. Tommy 3. Tommy 4. Tommy 5. Tommy 6. Marlon Scott M.	N/A
1. Scanning Lidar 2. Video camera	1. Bow [O(15m)] 2. Between bows	Continuously, 24/7 @ 75 Hz	Russel	4 ft bench space
Surfactants	Remote controlled Gizbox followed by 12' 2-person boat	Once per day for 4 hrs	Svein	4 ft bench space, deck space
1. CTD 2. $a_{pg}$ , $b_p$ , $c_{pg}$ (84 wavelengths; acs) 3. $a_g$ and $c_g$ (9 wavelengths; ac9) 4. $b_b$ (3 wavelengths; bb3) 5. VSF (3 angle; ECOVSF) 6. VSF (10-170deg; MASCOT) 7. Near forward VSF (LISST-100) 8. Bottle samples: TSM, HPLC, POC, Microscope? 9. Bubble resonator 10. Radiance camera	1-9. Profiling to 150 m using A-frame and winch (or capstan) and subsurface time series using crane or boom mount from back deck. 10. Subsurface time series using crane or boom mount from back deck	1-9. Hourly during daylight hours and O(hrs) 10. O(hrs)	1-7. Mike T. 8. Mike T. and Dariusz 9. Svein 10. Marlon or Scott	Back deck for subsurface deployment, 12 ft bench space, freezer for samples, lab space for analyses
1. Radiance camera 2. $c_{pg}$ (660 nm) 3. $E_{d,s}$ , $E_d$ , and $L_u$ (124	Profiling (freefall)	Every 2 hrs, daylight hours	Marlon Scott M.	8 ft bench space, deck space

wavelength) 4. $E_d$ and $L_u$ (7 wavelength) 5. CTD				
1. CTD 2. Microstructure CTD 3. Conductivity and shear microstructure 4. Motion package 5. $E_d$ (7 wavelength and 489 and 532 nm) 6. $a_{pg}$ , $b_p$ , $c_{pg}$ (9 wavelengths; ac9) 7. $b_b$ 8. Radiance camera	AUV launched with crane, towed out with small boat	In water 8 hrs per day @ 1. 8 Hz 2. 256 Hz 3. 2048 Hz 4. 256 Hz 5. 8 Hz and 256 Hz 6. 8 Hz 7. 8 Hz	1-7. Scott P. + Hemantha 8. Marlon or Scott M.	12 ft bench space, large deck space