QARTOD CORE VARIABLE/SENSOR MATRIX V1

24-Oct-14

CORE VARIABLE/SENSORS									
Currents	Single Level	Aanderaa Doppler Current Sensors RCM-0	Nortek Current Meter	Sontek MD	TRDI Doppler Volume Sampler (DVS)				
	Profile	TRDI Acoustic Doppler C	Nortek Aquadopp Profiler, Continental and AquaPro Zcell 600 khz	Sontek Acoustic Doppler Profiler		Pacific Gyre GPS/Mobitex Microstar drifters			
Sea Level		Acoustic	Stilling well float	SBE WAVE and TIDE					
Biogeochemical	Dissolved Oxygen	Aanderaa Oxygen Optodes	(Hach) Greenspan Galvanic DO 300/350 series	Wetlabs Water Quality Monitor	YSI Reliable Oxygen Sensor (ROX)	SeaBird SBE 43	Hach Hydrolab LDO, RINKO Fast DO Sensor, RBR Global Optical Oxygard, and Eureka Manta 2 DO Sensor		YSI 6600 V2, YSI EXO1
	Turbidity	Aanderaa Turbidity Sensor	Wetlabs Water Qualtiy Monitor	Wetlabs FLNTUS	Secchi disk				
	pH	YSI pH Sensor (6-series) 6600 SM 6570	SBE-18						
	Chlorophyl Fluorometry	Wetlabs Water Quality Monitor and ECO FLNTU and FLNTUS	Chelsea Aquatraka	SeaBird SBE-43	Turner C3 Submerisible Fluorometer	Seapoint Chlorophyll Flourometer	PME CTD (on Spray Glider)	YSI 6600 sensor model YSI 6025	
	Ocean Temperature	Aanderaa Temperature Sensors	SeaBird SBE-39 and SBE 37 and SBE 16+ (with SBE 5T pump) and SBE 45 MicroTSG Thermosalinograph	YSI 6560 Conductivity/Temperature Probe	EAW Electronics System Ocean Tempeature Sensor	Wetlabs Water Quality Monitor			
	Ocean Salinity	Aanderaa Salinity Sensors	SeaBird SBE-37 and SBE 16 plus and SBE 4 and SBE 43 and SBE 45 MicroTSG Thermosalinograph and SBE 41 (Spray glider)	YSI 6560 Conductivity/Temperature Probe	Wetlabs Water Quality Monitor				
pCO2	CONTROS HydroC	General Oceanics GO pCO2 System (u/w)	Batelle Seaology CO2 System	Pro-Oceanus CO2 Pro	Sunburst Sensors SAMI Technology	AOS sensor	Durafet III	PMEL underway pCO2 system	
Waves		Datawell Waverider MK III and DWR-G (GPS based)	Microstrain 3DM 3 axis pitch, roll, and yaw sensor	Nortek AWAC with AST, Aquadopp Current Meter, Aquadopp Profiler	Aanderaa Wave and Tide System	Summit Accelerometer 34203A	Axyx Triaxys Wave Sensor DeepCWind	TRDI NEMO	SBE WAVE and TIDE
Bathymetry									
Ice Distribution									
Contaminants									
Dissolved Nutrients	American EcoTech	Satlantic	Wetlabs Water Quality Monitor	YSI	Lachat model QuickChem FIA +8000 series	Satlantic ISUS V3	SBE 43		
Fish Species									
Fish Abundance	Continuous Underway Fish Egg Sampler	SIMRAD EK60 CCE-LTER Acoustics methods							
Zooplankton Species									
Optical Properties	WETLabs C-Star Transmissometer	SeaPoint OBS (on spray glider)							
Heat Flux	ASIMET (WHOI)								
Bottom Character									
Pathogens									
Phytoplankton Species									
Zooplankton Abundance									
Wind speed and direction	*Gill Windsonic*	RMYoung 05106-5							
Stream Flow									
Total Suspended Matter	Aanderaa Turbidity Sensor	Wetlabs Water Qualtiy Monitor							
Color Dissolved Organic Matter									
PAR	Li-COR	Apogee							

LEGEND:

Green:	addressed in a QARTOD manual and posted on www.ioos.gov/qartod/
Blue:	next to be addressed in upcoming QARTOD manuals