CCE-P0810MV Event Glossary

CCE LTER/0810 Process Cruise Event Glossary

ShortName	collectionMethod	LongName	Component	DataType	CollectionNotes
BIOCHEM PUMP	discreteDepth	Biochemical Pump	Aluwihare	core	An over-the-side surface pump used for biological and chemical analyses including organic material (C and N).
BONGO LIVE	towOblique	Bongo Net Tow Live	Landry	core	Tow to collect live zooplankton for experimental work. The technical requirements for this tow are: descent rate of 50 meters per minute. All tows with ascending wire angles lower than 38 degrees or higher than 51 degrees in the final 100 meters of wire will be repeated. Uses a .505 ucron net to a depth of approximately 100m.
BONGO w/Flow mete	towOblique	Bongo net Tow	Ohman	core	Tow to collect zooplankton to be preserved. Additionally, a 45 degree wire angle should be closely maintained during the ascent and descent of the net frame. Used a .202 ucron net for plankton and phytoplankton > .202u. Usually wire out is 300m with net to depth of 210m.
CTD	castVertical	Conductivity-Temperature Depth	Goericke	core	A profiling instrument using Sea-Bird software to record water column measurements.
DRIFTARRAY	drifter	Drift Array	Landry	core	A free-floating buoy or float structure (PVC and floatation devices) on which are mounted incubation bottles and instruments for water column property measurements.
MOCNESS	towOblique	Multiple Opening and Closing Net, Environmental Sampling System	Ohman	core	A 1 m^2 multiple plankton net frame bearing 10 nets (202-um mesh) which are triggered electronically. Net 0 - continuous tow, nets 1-9 discrete depths. Also houses an instrument package to measure pressure, conductivity, temperature, light extinction, dissolved oxygen.
MVP	towProfiling	Moving Vessel Profiles	Ohman	ancillary	A towed profiling instrument which free-fall dives and makes controlled ascents. Contains a particle counter (ie see LOPC) and a CTD. http://www.brooke-ocean.com/mvp_main.html
OOZEKI TRAWL	towOblique	Oozeki Trawl	Koslow	ancillary	A midwater trawl with key tow characteristics including meters wire out, speed, flow meter readings, and maxium depth. A five square meter mouth opening towed at 2 knotts for descent and 4-5 knotts for trawl so that fish avoidance is minimized for capture on the way up.
OPTICS-PRR	castVertical	Profiling Reflectance Radiometer	Mitchell	core	A profiling radiometer also known as Free Fall Radiometer (FFR) measuring light. A single cable used for data stream of 76 channels from 4 instruments: downwelling irradiance, upwelling iradiance, upwelling radiance, and surface irradiance. Enough cable is played out to allow the instrument to free fall without ship cable influence on its descent.
OPTICS-IOP	castVertical	Inherent Optical Properties Profiling	Mitchell	ancillary	An optical package (donut) frequently containing instruments measuring absorption (AC9;Wetlab), scattering (hydroscat; Hobi Labs), and fluorescence (frrf fluorometer; Chelsea). Data is stored internally for download aboard ship after the cast.
SEDIMENT TRAP	drifter	PITS - Particle Interceptor Trap System	Landry	core	Sediment trap (PITS) deployed for one cycle (4-5 days). Plastic frame with 8 collection tubes (w/formaldehyde) which drifts and catches particles, affixed to a drogue
THORIUM PUMP	castDiscreteDepth	Thorium Pump	Landry	core	An over-the-side pump used for thoerium experiments.
TMC GOFLO	castDiscreteDepth	Cpncentration Goflo Bottlecast	Barbeau	core	A cast of a single Goflo bottle for trace metal work such as iron and copper.
ADCP-75	underway	Acoustic Doppler Current Profile 75kHz	Chereskin	core	acoustic signal. Provides current profiles (from doppler timing of echos) and the backscatter amplitude is used
ADCP-150	underway	Acoustic Doppler Current Profile 150kHz	Chereskin	core	acoustic signal. Provides current profiles (from doppler timing of echos) and the backscatter amplitude is used
ECHOSOUND-EK60	underway	Simrad EK60 Echo Sounder	Koslow	core	built-in calibration utility. Operates seven echo sounder frequencies simultaneously ranging from 18 to 710 kHz.
ALF	underway	Advanced Laser Fluorescence	Mitchell/Sasha	ancillary	Use of spectral fluorescence to analyze florescent consitutents in the water; use of variable fluorescence to assess phytoplankton physiology
FRRF	underway	Fast Repetition Rate Fluorescence	Mitchell	ancillary	A profiling instrument to meaure the time rate of change of the fluorescence signal that is related to water column chlorophyll.
METS	underway	Meteorological Event Triggering System	Goericke	ancillary	Meteorological package that measures air and water temperature, winds, humidity, barometric pressure, and
BOTTLES	castVertical	Water Bottle Samples	Goericke		
GLIDER	autonomousProfiling	Spray Glider	Ohman	ancillary	Autonomous instrument with sensors to detect temperature, conductivity, pressure, fluorescence, vertical shear, and acoustic backscatter.
AVHRR	remoteSensiing	Advanced Very High Resolution Radiometers	Mitchell	ancillary	An imagery process (retrieval) of data depicting sea surface temperature from polar-orbiting satellites