

CCE-P0704TN Event Glossary		CCE LTER/0704 Process Cruise Event Glossary			
17-Apr-07	V8				
	collectionMethod			DataType	
	underway			core	
	towVertical			ancillary	
	towOblique				
	towProfiling				
	towUndulating				
	towSurface				
	castVertical				
	castDiscreteDepth				
	surfaceSample				
	drifter				
	autonomous				
	autonomousProfiling				
	remoteSensing				
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 micron net to a depth of approximately 100m.
BONGO w/Flow meters	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 micron 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. <a href="http://www.brooke-ocean.com/mvp_main.html">http://www.brooke-ocean.com/mvp_main.html</a>
OOZEKI TRAWL	towOblique	Oozeeki Trawl	Koslow	ancillary	A midwater trawl with key tow characteristics including meters wire out, speed, flow meter readings, and maximum depth. A five square meter mouth opening towed at 2 knots for descent and 4-5 knots 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 irradiance, 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 (hydrocat; Hobi Labs), and fluorescence (frf 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 buoy array (independent of drift array).
SOLOPC	drifter	Lagrangian Observer w/a Laser Optical Plankton Counter (LOPC) Float	Checkley	core	A profiling SOLO with a LOPC attached to a float to assess particle numbers and size distributions of plankton. Dives and ascends through water column; sends data to shore by it's antennae when above water via satellite. Also measures physical variables (Temp., salinity).
THORIUM PUMP	castDiscreteDepth	Thorium Pump	Landry	core	An over-the-side pump used for thorium experiments.
TMC GOFLO	castDiscreteDepth	Trace Metal Concentration Goflo Bottlecast	Barbeau	core	A cast of a single Goflo bottle for trace metal work such as iron and copper.
VPR	towUndulating	Video Plankton Recorder II	Ohman	ancillary	A towed instrument recording optical images as well as temperature, conductivity, fluorescence, irradiance, and optical backscatter.

ADCP	underway	Acoustic Doppler Current Profile	Chereskin	core	(from doppler timing of echos) and the backscatter amplitude is used to estimate plankton and fish biomass.
ALF	underway	Advanced Laser Fluorescence	Mitchell/Sasha	ancillary	Use of spectral fluorescence to analyze florescent consitents in the water; use of variable fluorescence to assess phytoplankton physiology
FRRF	underway	Fast Repetition Rate Fluorescence	Mitchell	ancillary	A profiling instrument to meauere 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 irradiance
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

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Particle Interceptor Trap System

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