

DECK EQUIPEMENT AND INFRASTRUCTURE

EQUIPEMENT	MODEL OR ALTERNATIVE NAME	LOCATION	DEPLOYMENT OR RESEARCH FIELD
A-FRAME			
10 T	-	PORTSIDE / FOREDECK	
2.5 T	-		
CRANES			
5 T – PORTSIDE FOREDECK	-	PORTSIDE / FOREDECK	CORING / MOORING / NETS / OTHER
5 T – STARBOARD FOREDECK	-	STARBOARD/ FOREDECK	-
5 T – PORTSIDE FLYDECK	-	PORTSIDE FLYDECK	-
5T - STARBOARD FLYDECK		STARBOARD FLYDECK	AUV
OCEANOGRAPHIC WINCHES			
500 HP	HAWBOLDT - HDD140 5954/S	PORTSIDE / FOREDECK	CORING / MOORING / NETS / OTHER
60 HP	HAWBOLDT - SPR 70-3842S	STARBOARD / BOAT DECK	ROSETTE
75 HP - ROSETTE	HAWBOLDT - SPR 4066/S	MOONPOOL	ROSETTE
75 HP - ROV	HAWBOLDT - SPR 3040/S	MOONPOOL	ROV
30 HP (SPARE)	HAWBOLDT - SPR 3040/S	MOBILE	NETS / OTHER
25 HP	BROOKE OCEAN - MVP300-1700-2	AFT	MVP
DEPLOYMENT PLATFORMS			
ROSETTE SHACK AND HANGAR	CT&A AND NAVTECH	STARBOARD / BOAT DECK	ROSETTE
INTERNAL DEPLOYMENT AREA WITH A 75 HP HYDRAULIC UNIT	-	MOONPOOL	ROSETTE / ROV
MVP DEPLOYMENT AREA		AFT / UPPER DECK	MVP
GATE VALVE	-	HULL - COFFERDAM	USBL – UNDERWATER POSITIONING SYSTEM
SCIENCE CONTAINERS			
PORTABLE AFT WET LAB	PAWL	STARBOARD / BOAT DECK	PRIMARY PRODUCTION
PORTABLE ULTRA-CLEAN IN-SITU LAB	PILMS	STARBOARD / BOAT DECK	HG SPECIATION AND CONTAMINANT
RADIOISOTOPE LAB	RADVAN	STARBOARD / BOAT DECK	RADIOISOTOPES
WORKSHOP CONTAINER	WORKSHOP	PORTSIDE / UPPER DECK	MOORING / ZOOPLANKTON / OTHER
METOCEAN CONTAINER	METOCEAN	ROOF OF NAVIGATION DECK	OCEAN - ICE - ATMOSPHERE
PORTABLE ELECTRONIC LAB	PORTABLE ELECTRONIC	STARBOARD / UPPER DECK	METEOROLOGICAL RELAY / GAZ ANALYSES
REFRIGERATED CONTAINERS		STARBOARD / AFT	CORING STORAGE / OTHER
4 CARGO CONTAINERS	CARGOS	FLY DECK	CARGO
AUV CONTAINER	AUV	STARBOARD / FLY DECK	AUV MAINTENANCE
SPECIALIZED LABORATORIES			
ACQUISITION ROOM		NAVIGATION DECK	
SCATTEROMETER		BOAT DECK	
GEO/PALEO		PORTSIDE / UPPER DECK	
BENTHIC		PORTSIDE / UPPER DECK	
-80°C FREEZER ROOM		PORTSIDE / UPPER DECK	
CLEAN LAB		PORTSIDE / UPPER DECK	
TEMPERATURE CONTROLLED LAB		PORTSIDE / UPPER DECK	
TEMPERATURE CONTROLLED LAB		STARBOARD / UPPER DECK	
CHEMISTRY LAB		STARBOARD / UPPER DECK	
AFT FILTRATION LAB		STARBOARD / UPPER DECK	
ROV CONTROL ROOM		PORTSIDE / MAIN DECK	
ZOOPLANKTON LAB		PORTSIDE / MAIN DECK	
FORWARD FILTRATION		STARBOARD / MAIN DECK	
NUTRIENT LAB		STARBOARD / MAIN DECK	
MICROSCOPY LAB		STARBOARD / MAIN DECK	
SALINOMETER & SCINTILLATION COUNTER LAB		STARBOARD / MAIN DECK	
INTERNAL COMMUNICATION SYSTEM			
SHIP DATA SERVER AND INTERNAL COMMUNICATION NETWORK WITH REPEATERS IN EACH CABIN AND LABORATORY			

HULL MOUNTED EQUIPMENT, SONARS AND ASSOCIATED FACILITIES

EQUIPMENT	MANUFACTURER / MODEL OR ALTERNATIVE NAME	LOCATION
THERMOSALINOGRAPH (TSG)		ENGINE ROOM
CONDUCTIVITY - TEMPERATURE	SEABIRD / SBE45	
TEMPERATURE	SEABIRD / SBE38	
SOUND VELOCITY	MICRO-X	
FLUOROMETER	W3S3	
SONARS		
MULTIBEAM ECHOSOUNDER	KONGSBERG / EM-304 30 KHZ	ACQUISITION ROOM
SUB-BOTTOM PROFILER	KNUDSEN / K320R 3.5 KHZ	ACQUISITION ROOM
SINGLEBEAM ECHOSOUNDER	SIMRAD EK80 / 38-120-200KHZ	ACQUISITION ROOM
CURRENTMETER	TELEDYNE RDI / OCEAN SURVEYOR 150 KHZ	ACQUISITION ROOM
ACOUSTIC SYNCHRONIZATION UNIT	KONGSBERG / K-SYNC	ACQUISITION ROOM
ACOUSTIC WELL	-	MAIN DECK
NAVIGATION / POSITION		
MOTION AND ORIENTATION SENSOR	APPLANIX / POS/MV 320	-
GPS	OCEANEERING / C-NAV3050	ACQUISITION ROOM
ULTRA SHORT BASE LINE (USBL); UNDERWATER POSITIONING SYSTEM WITH CNODES	HIPAP 502	HULL / COFFERDAM ; CONTROL: ACQUISITIONS ROOM

OCEANOGRAPHIC SAMPLERS

EQUIPMENT	MANUFACTURER / MODEL	LOCATION	MEASUREMENTS	
PROFILING MEASUREMENT SYSTEM				
CTD-ROSETTE SYSTEM - 2 UNITS WITH:		STARBOARD / BOAT DECK / ROSETTE HANGAR		
24 NISKIN BOTTLE CAROUSELL	SEA-BIRD ELECTRONIC / SBE 32		WATER SAMPLING	
DECK UNIT	SEA-BIRD ELECTRONIC / SBE 11+		DATA LOGGER	
UNDERWATER UNIT	SEA-BIRD ELECTRONIC / SBE 9+		-	
TEMPERATURE SENSOR	SEA-BIRD ELECTRONIC / SBE 3+		PHYSICAL MEASURES	
CONDUCTIVITY SENSOR	SEA-BIRD ELECTRONIC / SBE 4C		PHYSICAL MEASURES	
DISSOLVED OXYGEN SENSOR	SEA-BIRD ELECTRONIC / SBE 43		PHYSICAL MEASURES	
TRANSMISSOMETER	WETLABS / CSTAR		PHYSICAL MEASURES	
FLUORIMETER (CHL A&B)	SEAPOINT / SCF		PHYSICAL MEASURES	
FLUORIMETER (CHL A, CDOM, PHYCOERYTHRIN)	WETLABS / ECO CDOM		PHYSICAL MEASURES	
ALTIMETER	VALEPORT / VA 500		PHYSICAL MEASURES	
PAR	BIOSPHERICAL INSTRUMENTS / PAR - QCP 2300		PHYSICAL MEASURES	
SPAR	BIOSPHERICAL INSTRUMENTS / SPAR - QCP 2200		PHYSICAL MEASURES	
NITRATE SENSOR	SATLANTIC		PHYSICAL MEASURES	
LADCP	RDI / WHM300-1-UG304		PHYSICAL MEASURES	
HYDROPTIC UVP <i>COLLABORATION WITH TAKUVIK</i>	UVP 5		IMAGERY	
MOVING VESSEL PROFILER (MVP)			AFT	
MICRO CTD	AML OCEANOGRAPHIC	PHYSICAL MEASURES		
MICRO SOUND VELOCITY & PRESSURE	AML OCEANOGRAPHIC			
OXYGEN SENSOR	RINKO III / MICRO DO2	PHYSICAL MEASURES		
TRANSMISSOMETER	WETLABS	PHYSICAL MEASURES		
FLUOROMETER	WETLABS / ECO FLRTD	PHYSICAL MEASURES		
LIGHT-FRAME ON-SIGHT KEY SPECIES INVESTIGATION SYSTEM (LOKI) <i>COLLABORATION WITH FORTIER'S LAB</i>		FOREDECK		IN-SITU ZOOPLANKTON IMAGERS
SUBMARINE VEHICLES				
REMOTE OPERATED VEHICLE (ROV)	LIGHT WORK CLASS FORUM-SUB ATLANTIC COMANCHE	FOREDECK STARBOARD	IMAGERY, SEDIMENT AND SEAFLOOR SAMPLES	
AUTOMATED UNMANNED VEHICLES (AUV)	KONGSBERG / HUGIN 1000	AUV CONTAINER / FLY DECK	PHYSICAL MEASURES	
TAKUVIK GLIDERS <i>COLLABORATION WITH TAKUVIK</i>	SLOCUM ELECTRIC GLIDERS 2	MOBILE (FLY DECK)	T, S, NO3, O2, SUSPENDED PARTICLES, PAR, COLLABORA- BACKSCATTERING,	
NETS				
HYDROBIOS + CTD SENSOR + FLOWMETER	HYDRO-BIOS VERTICAL MULTIPLE NETS PLANKTON SAMPLER		PLANKTON SAMPLING PHYSICAL MEASURES	
RECTANGULAR MID-WATER TRAWL (RMT)	OPEN SEAS INSTRUMENTATION			
ISAAC-KID MIDBENTHIC TRAWL (IKMT)				
BEAM TRAWL <i>COLLABORATION WITH FORTIER'S LAB</i>				
AGASSIZ TRAWL <i>COLLABORATION WITH ARCHAMBAULT'S LAB</i>				
TRAMMEL NETS <i>COLLABORATION WITH FORTIER'S LAB</i>				
CORING				
PISTON CORE		PORTSIDE / FOREDECK	SEDIMENTS	
GRAVITY CORE		PORTSIDE / FOREDECK	SEDIMENTS	
BOX-CORE - 2 UNITS + 1 WITH BOTTOM CAMERA	BX 650 MK III	PORTSIDE / FOREDECK	SEDIMENTS	
OTHER				
DIAPHRAGM SURFACE WATER PUMP	FTI AIR	MOBILE	SURFACE WATER	

ICE CAMP EQUIPMENT

EQUIPMENT

MODEL

ICE CAMP EQUIPMENT

ARCTIC SHELTERS

BOMBARDIER TRACTOR

BOMBARDIER BR-180

ON ICE MOBILITY

AIR BOAT

COLLABORATION WITH THE UNIVERSITY OF MANITOBA

EQUIPED WITH DUAL FIELD SPECTROMETER (350-1050NM)

LABORATORIES EQUIPMENT AND INSTRUMENTATION

EQUIPMENT	MODEL	LOCATION
STORAGE AREA		
[-80 C;-20 C] FREEZERS - 3 UNITS	SANYO	AFT / UPPER DECK
-20 C CHEST FREEZERS - 3 UNITS	-	STEERAGE / AFT / UPPER DECK
ENVIRONMENTAL CHAMBERS - 2 UNITS	SANYO	AFT FILTRATION LAB AND ZOOPLANKTON LAB
TEMPERATURE CONTROLLED INCUBATORS - 2 UNITS	AMUNDSEN SCIENCE & AQUAMERIK	ROOF TOP OF THE ROSETTE SHACK HANGAR
EQUIPMENT		
FUME HOOD	LABCONCO	WITHIN LABORATORIES
MICROSCOPES		MOBILE
MICROSTEREOSCOPIQUES - 2 UNITS		MOBILE
MILLI-Q SYSTEM - 2 UNITS	MILLIPORE	
LIQUID NITROGEN PLAN - 2 UNITS	MMR	MAIN DECK
SALINOMETER	GUIDELINE / AUTOSAL 8400B	MAIN DECK
SCINTILLATION COUNTER	PERKIN ELMER / TRI-CARB 4910 TR	MAIN DECK
MICROCENTRIFUGE - 2 UNITS	HERMLE / Z233MK-2	MOBILE
AUTOANALYZER	FOLIO INSTRUMENTS	MOBILE
MULTI-SENSOR CORE LOGGER - MSCL	GEOTEK	MOBILE
GAZ DETECTION DEVICE FOR CO AND NO2	HONEYWELL / 201M	MOBILE

MOORING EQUIPMENT

EQUIPMENT	MODEL	PARTICULARITY
ACOUSTIC DOPPLER CURRENT METERS		
LONG RANGERS	TELEDYNE RDI	
QUARTER MASTERS	TELEDYNE RDI	
WORKHORSE SENTINEL (WITH DEPTH PRESSURE CASING FOR 500 AND 1500 M)	TELEDYNE RDI / 300KHZ	
DVS 6000	TELEDYNE RDI	
DVS-T 750	TELEDYNE RDI	
RCM11	AANDERAA	
SEAGUARD	AANDERAA	
CONTINENTAL	NORTEK / 470KHZ	
CONTINENTAL	NORTEK / 190KHZ	
AQUADOPP	NORTEK	
AQUADOPP PROFILER	NORTEK	
SEDIMENT TRAPS		
24 SAMPLES – 5 UNITS	TECHNICAP / PPS 3/3	
12 SAMPLES – 1 UNIT	TECHNICAP / PPS 5/2	
PASSIVE ACOUSTIC HYDROPHONES		
AURAL-M2	MULTI-ÉLECTRONIQUE	SMALL-TIME SCALE MEASUREMENTS
AMAR	JASCO APPLIED SCIENCES	
PROBES AND SENSORS		
NO3	SATLANTIC/ ISUS V2	
CONDUCTIVITY AND TEMPERATURE + TU + DISSOLVED OXYGEN + FLUORESCENCE	RBR / XR420	
CONDUCTIVITY AND TEMPERATURE + PRESSURE + TU + DISSOLVED OXYGEN	RBR / XR420	
PARTICLES	SEQUOIA SCIENTIFIC / LISST-100	
PAR	JFE ADVANTECH / ALEC-ALW	SMALL-TIME SCALE MEASUREMENTS
CONDUCTIVITÉ / TEMPÉRATURE	JFE ADVANTECH / ALEC-CTW	SMALL-TIME SCALE MEASUREMENTS
CONDUCTIVITÉ / TEMPÉRATURE	JFE ADVANTECH / ALEC-CT	SMALL-TIME SCALE MEASUREMENTS
CHL/FLUORESCENCE	JFE ADVANTECH / ALEC-CT	SMALL-TIME SCALE MEASUREMENTS
CONDUCTIVITY AND TEMPERATURE	JFE ADVANTECH / ALEC INFINITY-CTW	
CONDUCTIVITY AND TEMPERATURE	JFE ADVANTECH / ALEC INFINITY-CT	
ACOUSTIC RELEASES		
	IXBLUE OCEANO	+ DECK BOX UNITS
	TELEDYNE BENTHOS 865-A	
	ORE OFFSHORE CART	
	ORE OFFSHORE 8242XS	
LOCATION BEACONS		
BEACONS	TELEDYNE BENTHOS ALP 364/EL XEOS SATELITTE BEACONS	
RADIO FLASHER PINGERS	METOCEAN/NOVATECH	
PROFILERS		
PROFILER PLATFORM	MACLANE MOORED PROFILEUR (MMP)	
ICE PROFILER	ASL ENVIRONMENTAL IPS4 & IPS5	
FLOATATION		VARIOUS FRAMES AND BUOYS OF ALL SORTS

OCEAN COLOR IN-SITU REMOTE SENSING INSTRUMENTATION

INSTRUMENTATION

DUAL-BEAM SPECTROPHOTOMETER
FLUORESCENCE INDUCTION FLUOROMETER (FIRE)
IN SITU PROFILERS
OPTICAL CLUSTER – 10 P FRAME
FLUOROMETERS - 2 UNITS
UNDERWATER MULTICHANNEL (19)
SPECTRORADIOMETER
HYPERSPECTRAL SPECTRORADIOMETER
WPI ULTRAPATH SPECTRORADIOMETER
BIO-ARGO AUTONOMOUS SATELLITE-LINKED
PROFILING FLOATS

MODEL

VARIAN
SATLANTIC
WETLABS (AC-S, BB3, BB9, FLBBCD)
SEQUOIA SCIENTIFIC LISST-DEEP
TURNER DESIGNS 10AU
BIOSPHERICAL INSTRUMENTS C-OPS
SATLANTIC HYPERSAS
WORLD PRECISION INSTRUMENTS
BIO-ARGO

ADDITIONAL INFORMATION

COLLABORATION WITH WARWICK'S LAB.
BENCHTOP INSTRUMENT

ATMOSPHERIC DOWNWARD AND UPWARD IRRADIANCE

WATER-LEAVING RADIANCE
LONG OPTICAL PATH FOR CDOM MEASUREMENTS
COLLABORATION WITH CNRS BIO-ARGO DATA

