

LMG
Science Equipment/Systems Allocation
NETS AND TRAWLS

Product	Quantity on Hand
<i>Bottom Trawls</i>	
Blake Trawl, USAP Standard 5-ft. net, robust net and frame system good for exploratory fishing, (Modified Beam Trawl)	2
Bundle Component: Spare USAP Standard Blake Trawl Nets	
Bundle Component: Spare USAP Standard Blake Trawl Frames	
Bundle Component: Head Sheave , App A. trawling compliant QTY 1 (Smith Berger Wide Mouthed Trawl Block)	
Bundle Component: LMG Trawl repair kit	
Bundle Component: Winch DUSH-11 with 9/16 wire rope	
Bundle Component: Stern A-Frame Operations	
Temperature Depth Recorder – Star-Oddi, DST Centi-TD, -2°C to +40°C, +/-0.1°C, 5m-1500m, or 10m-3000m, +/- 0.6% of selected range.	
Otter Trawl, USAP Standard 18-ft., for survey of soft to moderately hard seafloor	2
Bundle Component: Head Sheave , App A. trawling compliant QTY 1 (Smith Berger Wide Mouthed Trawl Block)	
Bundle Component: Spare USAP Standard 18' nets	
Bundle Component: Trawl Doors, Aluminum "Fish Buster"	
Bundle Component: Deck Tugger Winch	
Bundle Component: LMG Trawl repair kit	
Bundle Component: Winch DUSH-11 with 9/16 wire rope	
Bundle Component: Stern A-Frame Operations	
Roller Gear, 18', "Rock Hopper" addition to Otter Trawl for use on rougher bottoms	
Temperature Depth Recorder – Star-Oddi, DST Centi-TD, -2°C to +40°C, +/-0.1°C, 5m-1500m, or 10m-3000m, +/- 0.6% of selected range.	
Otter Trawl, USAP Standard 30-ft., use for survey of soft to moderately hard seafloor	2
Bundle Component: Head Sheave , App A. trawling compliant QTY 1 (Smith Berger Wide Mouthed Trawl Block)	
Bundle Component: Trawl Doors, Aluminum "Fish Buster"	
Bundle Component: Deck Tugger Winch	
Bundle Component: LMG Trawl repair kit	
Bundle Component: Winch DUSH-11 with 9/16 wire rope	

Bundle Component: Stern A-Frame Operations	
Depth sensor, records temperatures from -5C to 35C and depths to 680 meters, Minilog 8-TDR-5/+35-680m-064K, Vemco	3
Roller Gear, 30', "Rock Hopper" addition to Otter Trawl for use on rougher bottoms	
Otter Trawl, 30-ft., with roller gear ('Rock Hopper net'), for survey of rocky seafloor	1
Temperature Depth Recorder – Star-Oddi, DST Centi-TD, -2°C to +40°C, +/-0.1°C, 5m-1500m, or 10m-3000m, +/- 0.6% of selected range.	
Plankton Nets and Trawls	
Midwater Trawl, Isaac Kidd 1.8-M frame, Liner-less net designed for catching small organisms, including fish, at great depth	2
Bundle Component: Spare 500 micron liner-less net	
Bundle Component: Spare 1.8M IKMT frame (para-vane)	
Bundle Component: Head Sheave, appropriate for mid-water operations	
Bundle Component: Winch DUSH 9-11 with 9/16 wire rope	
Bundle Component: Stern A-Frame Operations	
Flow meter, General Oceanics 202-R	3
MOCNESS (Multiple Opening and Closing Net Environmental Sampling System), 1-M net frame, series of 8 nets can be opened and closed remotely, also collects real-time water column data.	
Bundle Component: Head Sheave , App A. trawling compliant (Smith Berger Coring or Smith Berger Wide Mouthed Trawl Block)	
Bundle Component: Winch DUSH-11 with .680 EM cable or DUSH-4 with .322 EM cable	
Bundle Component: Stern A-Frame Operations	
Bundle Component: MOCNESS Net Stands	
Conductivity sensor, Seabird 4	1
Dissolved O2 sensor, SeaBird 43	1
net, 333um mesh size, for 1-M Mocness	5
Net, 500um mesh size for 1-M Mocness	1
Optical Plankton Counter - note that mounting bracket for OPC precludes the use of a Transmissometer, Fluorometer, and dissolved O2 sensor	1
Temperature sensor, SeaBird 3+	1
MOCNESS (Multiple Opening and Closing Net Environmental Sampling System), 10-M net frame, series of 6 nets can be opened and closed remotely, also collects real-time water column data.	
Bundle Component: Head Sheave , App A. trawling compliant (Smith Berger Coring or Smith Berger Wide Mouthed Trawl	

Block)	
Bundle Component: Winch DUSH-11 with .680 EM cable	
Bundle Component: Stern A-Frame Operations	
Bundle Component: Tri-Net Block, or other applicable utility block(s)	
Bundle Component: Deck Tugger Winch	
Bundle Component: MOCNESS Net Stands	
Conductivity sensor, Seabird 4	1
Dissolved O2 sensor, SeaBird 43	1
net, 3000um mesh size, for 10-M Mocness	9
Optical Plankton Counter - note that mounting bracket for OPC precludes the use of a Transmissometer, Fluorometer, and dissolved O2 sensor	1
Temperature sensor, SeaBird 3+	1
Net frame, ring, 1-M	9
cod-end, 10" diameter, for 1-M ring net	5
cod-end, 4" diameter, for 1-M ring net	4
cod-end, 6" diameter, for 1-M ring net	2
net, 202um mesh size, for 1-M ring	1
net, 64um mesh size, for 1-M ring	1
net, other mesh size, for 1-M ring (please indicate under Comments)	
Net frame, ring, 1/4-M, hand-deployed	4
cod-end, 10cm diameter, for 1/4-M ring net	2
net, 202um ring, 25mm diameter, 1M length, for 1/4M ring	1
net, 64um ring, 25mm diameter, 1M length, for 1/4-M ring	1
net, other mesh size, for 1/4-M ring (please indicate under Comments)	
Plankton Trawl, Tucker, opening/closing, 1-M frame, 3 nets	5
Bundle Component: .322 GO double trip release	
Bundle Component: .322" GO messengers	
Bundle Component: .322" Book Clamp	
Bundle Component: Ballast for Tucker Trawl frame	
Bundle Component: Cod-ends for Tucker Trawl nets	
Bundle Component: Head Sheave, appropriate for mid-water operations	
Bundle Component: Winch DUSH-4 with .322 EM cable (mechanical only)	
Bundle Component: Stern A-Frame Operations	
Net, 200 micron, set of 3 plus 1 spare	1
Net, 333 micron, set of 3 plus 1 spare	1
Net, 500 micron, set of 3 plus 1 spare	1