

50 m Depth

(2) 14" Panther Plastic Floats (#714) on Tension Rod

MicroCAT

48.9 m 1/4" Spectra Line

100 m Depth

(1) 14" Panther Float 28 m above lower end of Spectra

MicroCAT

71 m 1/4" Spectra Line

Table A
Tripod Instrumentation

Instrument	Serial Number
Tripod	
ADCP	
MicroCat	
XEOS Kilo	
Aqua Dopp	

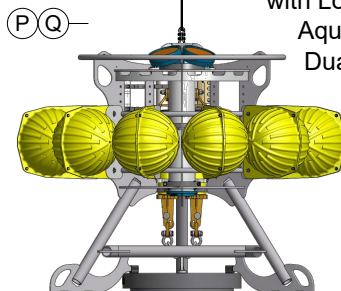
Hardware Required
(per mooring without spares)

(4)	3/8" Anchor Shackle
(2)	1/2" Anchor Shackle
(1)	250 lb Weak Link
(1)	350 lb Weak Link

Hardware Designation

(P)	(1) 1/2" SH
(Q)	(1) 3/8" SH
(W1)	250 lb Weak Link
(W2)	350 lb Weak Link

Ocean Research Benthic Instrument Tripod (ORBIT) ← Table A
with Long Ranger 75 kHz ADCP, MicroCAT,
AquaDopp, KILO, 1000 lb Ww Anchor,
Dual Releases, & (12) 17" Glassballs



Depth 173 m



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Straneo OSNAP Tripod Mooring CF-1 To Be Deployed 2020

50 m Depth

(2) 14" Panther Plastic Floats (#714) on Tension Rod

MicroCAT

48.9 m 1/4" Spectra Line

100 m Depth

(1) 14" Panther Float 28 m above lower end of Spectra

MicroCAT

Note A

Note A
Clamp RBR Virtuoso Below
100 meter Microcat

Table A
Tripod Instrumentation

Instrument	Serial Number
Tripod	
ADCP	
MicroCat	
XEOS Kilo	
Aqua Dopp	

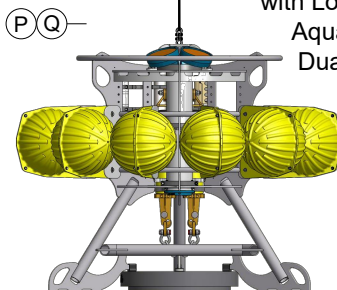
Hardware Required
(per mooring without spares)

(4)	3/8" Anchor Shackle
(2)	1/2" Anchor Shackle
(1)	250 lb Weak Link
(1)	350 lb Weak Link

Hardware Designation

(P)	(1) 1/2" SH
(Q)	(1) 3/8" SH
(W1)	250 lb Weak Link
(W2)	350 lb Weak Link

Ocean Research Benthic Instrument Tripod (ORBIT) ← Table A
with Long Ranger 75 kHz ADCP, MicroCAT,
AquaDopp, KILO, 1000 lb Ww Anchor,
Dual Releases, & (12) 17" Glassballs



Depth 178 m

Straneo OSNAP Tripod Mooring CF-2 To Be Deployed 2020



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50 m Depth

(2) 14" Panther Plastic Floats (#714) on Tension Rod

MicroCAT

48.9 m 1/4" Spectra Line

100 m Depth

(1) 14" Panther Float 28 m above lower end of Spectra

MicroCAT

81 m 1/4" Spectra Line

Table A
Tripod Instrumentation

Instrument	Serial Number
Tripod	
ADCP	
MicroCat	
XEOS Kilo	
Aqua Dopp	

Hardware Required
(per mooring without spares)

(4)	3/8" Anchor Shackle
(2)	1/2" Anchor Shackle
(1)	250 lb Weak Link
(1)	350 lb Weak Link

Hardware Designation

(P)	(1) 1/2" SH
(Q)	(1) 3/8" SH
(W1)	250 lb Weak Link
(W2)	350 lb Weak Link

Ocean Research Benthic Instrument Tripod (ORBIT) ← Table A
with Long Ranger 75 kHz ADCP, MicroCAT,
AquaDopp, KILO, 1000 lb Ww Anchor,
Dual Releases, & (12) 17" Glassballs

Depth 183 m

Straneo OSNAP Tripod Mooring CF-3 To Be Deployed 2020

50 m Depth (L) (W) (L)
 100 m Depth (L)
 (2) 14" Panther Plastic Floats (#714) on Tension Rod
 48.9 m 1/4" Spectra Line with MicroCat
 (1) 14" Panther Float 28m up from lower end of Spectra

48" Steel Sphere (48-12)
 XEOS KILO Iridium GPS Unit

(H)
 (H)
 (S)
 (B)

5 m 1/2" Mooring Chain
 3 ton Swivel

MicroCAT

Note A

Note B

241 m 1/4" Jac.Nil. Wire rope

MicroCAT

Note B

350 m Depth (B)
 (F)
 0.5 m 1/2" Mooring Chain
 Long Ranger / MicroCAT in cage

(F)

1.5 m 1/2" Mooring Chain

(B)

4 x (H)

5 Sets of (4) 17" Glassballs on
 1/2" Mooring Chain

(H)

2 m 1/2" Mooring Chain

(H)

377 m Depth (H)
 (F)
 Aquadopp / MicroCAT in cage

(H)

1 m 1/2" Mooring Chain

(F)

Dualed ORE Acoustic Releases

(M) (J)

3 m 1/2" Mooring Chain

(K)

3000 lb Ww Anchor

386 m Depth

Table A 48 inch Sphere Instrumentation	
Instrument	Serial Number
XEOS Kilo	

Note A Clamp MicroCat 1 m Below Upper Termination

Note B Clamp RBR Virtuoso Below 100 meter MicroCat 200 meter MicroCat
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Hardware Required (per mooring without spares)	
(6)	1/2" Anchor Shackle (SH)
(27)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(18)	5/8" Sling Link (SL)
(1)	1-1/4" Master Link
(1)	3 ton Swivel with Anode

Hardware Designation	
(A)	(2) 1/2" SH, (1) 5/8" SL
(B)	(1) 1/2" SH, (1) 5/8" SL, (1) 5/8" SH
(F)	(1) 5/8" SH, (1) 5/8" SL, (1) 3/4" SH
(H)	(2) 5/8" SH, (1) 5/8" SL
(J)	(1) 5/8" SH, (1) 5/8" SL, (1) 7/8" SH
(K)	(2) 5/8" SH, (2) 5/8" SL, (1) 7/8" SH
(M)	(1) 1-1/4" Master Link
(L)	(1) 1/2" SH
(S)	3 ton Swivel with Anode
(W)	350 lb Weak Link



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Straneo OSNAP Mooring CF-4 To Be Deployed 2020

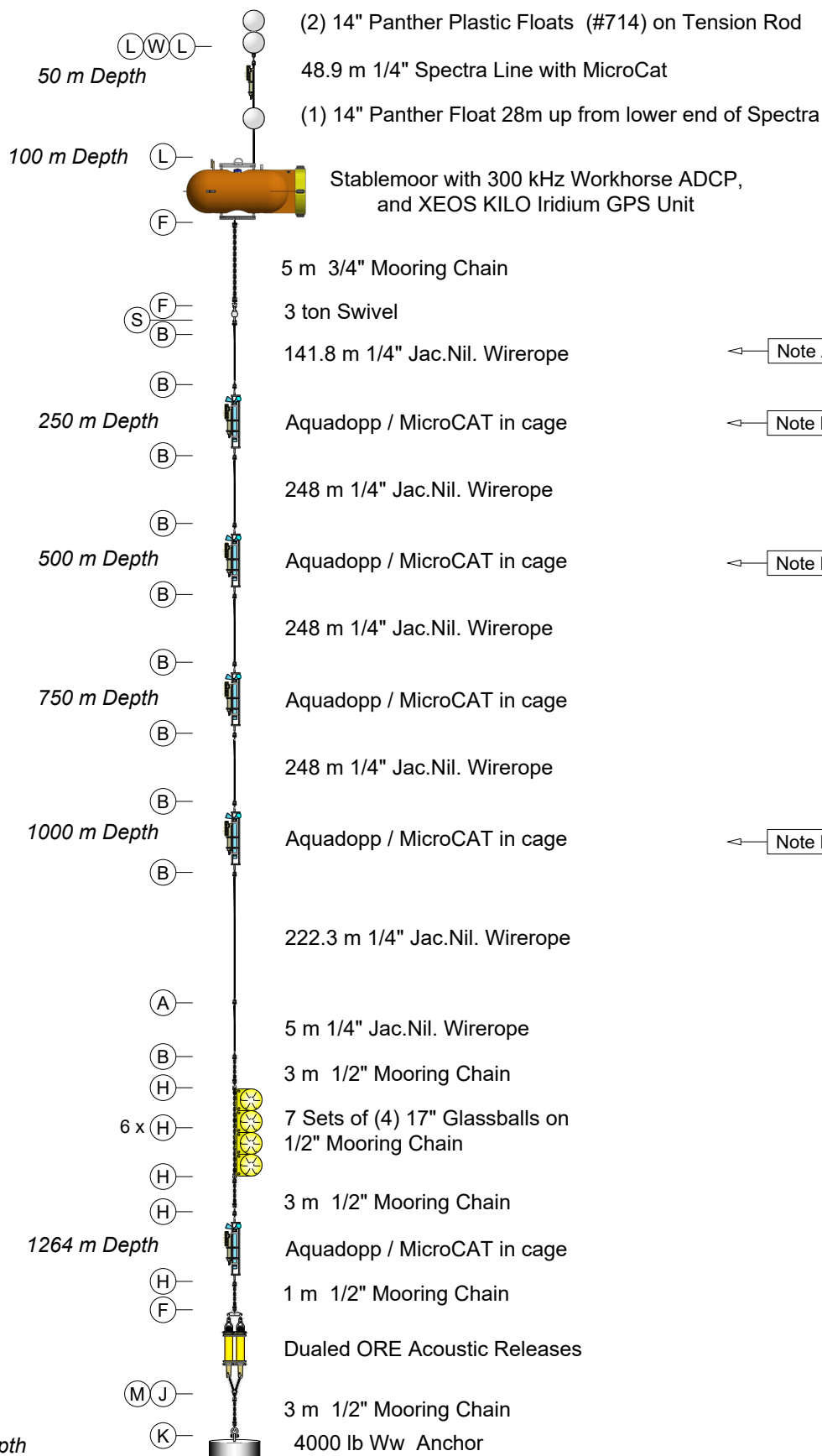
Table A Stablemoor Instrumentation	
Instrument	Serial Number
ADCP	
XEOS Kilo	

Note A
Clamp MicroCat 1 m Below
Upper Termination
Clamp RBR Virtuoso Below MicroCat

Note B
Clamp RBR Virtuoso Below
250 meter Aquadopp
500 meter Aquadopp
1000 meter Aquadopp

Hardware Required (per mooring without spares)	
(15)	1/2" Anchor Shackle (SH)
(36)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(27)	5/8" Sling Link (SL)
(1)	1-1/4" Master Link
(1)	3 ton Swivel with Anode

Hardware Designation	
(A)	(2) 1/2" SH, (1) 5/8" SL
(B)	(1) 1/2" SH, (1) 5/8" SL, (1) 5/8" SH
(F)	(1) 5/8" SH, (1) 5/8" SL, (1) 3/4" SH
(H)	(2) 5/8" SH, (1) 5/8" SL
(J)	(1) 5/8" SH, (1) 5/8" SL, (1) 7/8" SH
(K)	(2) 5/8" SH, (2) 5/8" SL, (1) 7/8" SH
(M)	(1) 1-1/4" Master Link
(L)	(1) 1/2" SH
(S)	3 ton Swivel with Anode
(W)	350 lb Weak Link



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Straneo OSNAP Mooring CF-5 To Be Deployed 2020

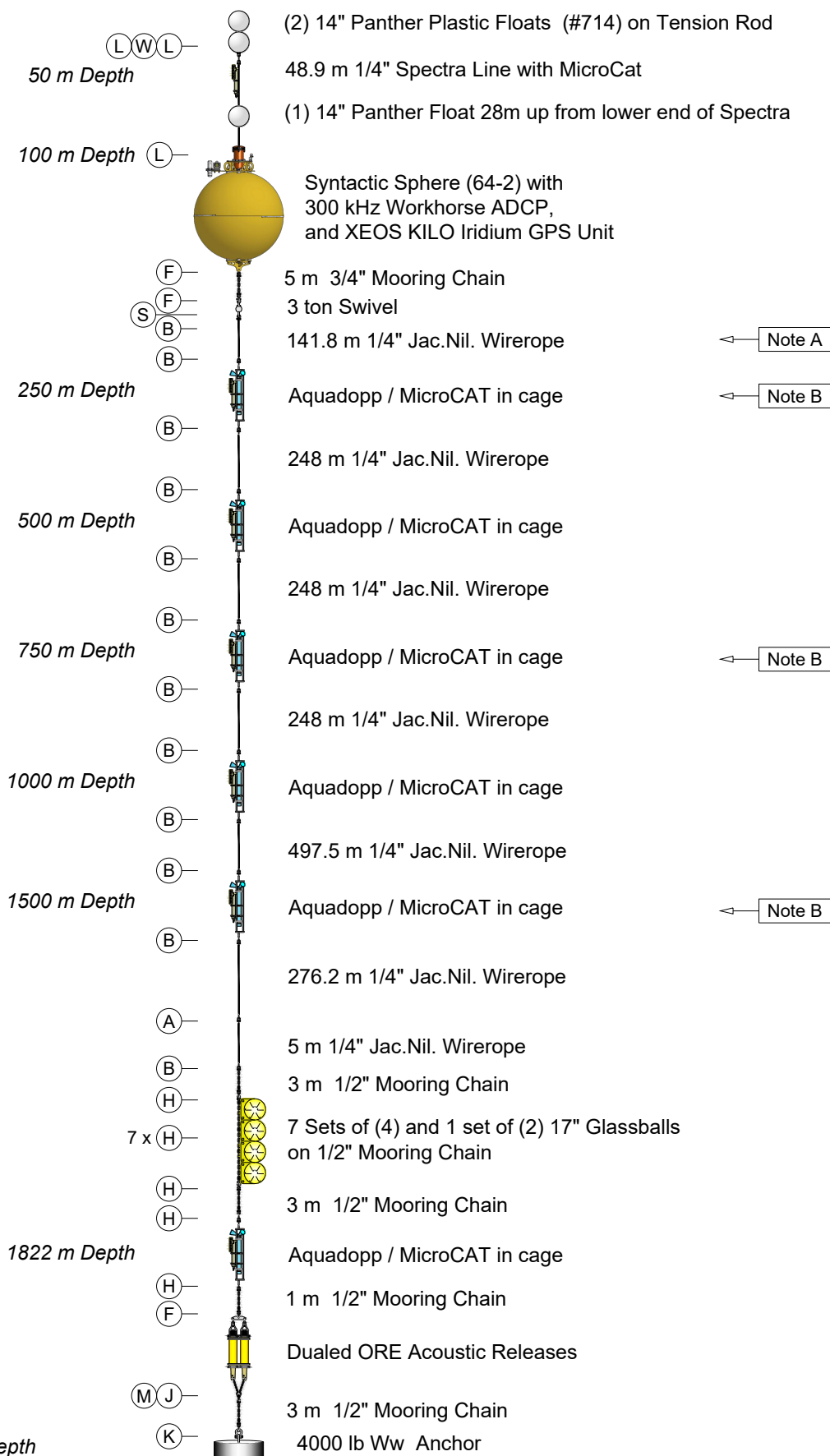
Table A 64 inch Sphere Instrumentation	
Instrument	Serial Number
ADCP	
XEOS Kilo	

Note A
Clamp MicroCat 1 m Below
Upper Termination
Clamp RBR Virtuoso Below MicroCat

Note B
Clamp RBR Virtuoso Below
250 meter Aquadopp
750 meter Aquadopp
1500 meter Aquadopp

Hardware Required (per mooring without spares)	
(17)	1/2" Anchor Shackle (SH)
(41)	5/8" Anchor Shackle
(2)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(30)	5/8" Sling Link (SL)
(1)	1-1/4" Master Link
(1)	3 ton Swivel with Anode

Hardware Designation	
(A)	(2) 1/2" SH, (1) 5/8" SL
(B)	(1) 1/2" SH, (1) 5/8" SL, (1) 5/8" SH
(F)	(1) 5/8" SH, (1) 5/8" SL, (1) 3/4" SH
(H)	(2) 5/8" SH, (1) 5/8" SL
(J)	(1) 5/8" SH, (1) 5/8" SL, (1) 7/8" SH
(K)	(2) 5/8" SH, (2) 5/8" SL, (1) 7/8" SH
(M)	(1) 1-1/4" Master Link
(L)	(1) 1/2" SH
(S)	3 ton Swivel with Anode
(W)	350 lb Weak Link



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Straneo OSNAP Mooring CF-6
To Be Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Straneo 2020 date: 03/19/2020

(2) 14" Panther Plastic Floats (#714) on Tension Rod
48.9 m 1/4" Spectra Line with MicroCat
(1) 14" panther Float 28m up from lower end of Spectra

50 m Depth (L W L)
100 m Depth (L)
Syntactic Sphere (64-27) with
300 kHz Workhorse ADCP,
and XEOS KILO Iridium GPS Unit

5 m 3/4" Mooring Chain
3 ton Swivel
141.8 m 1/4" Jac.Nil. Wire rope

Note A

250 m Depth
Aquadopp / MicroCAT in cage

248 m 1/4" Jac.Nil. Wire rope

500 m Depth
Aquadopp / MicroCAT in cage

Note B

248 m 1/4" Jac.Nil. Wire rope

750 m Depth
Aquadopp / MicroCAT in cage

248 m 1/4" Jac.Nil. Wire rope

1000 m Depth
Aquadopp / MicroCAT in cage

Note B

497.5 m 1/4" Jac.Nil. Wire rope

1500 m Depth
Aquadopp / MicroCAT in cage

344 m 1/4" Jac.Nil. Wire rope

5 m 1/4" Jac.Nil. Wire rope

3 m 1/2" Mooring Chain

7 x (H)
7 Sets of (4) and 1 set of (2) 17" Glassballs
on 1/2" Mooring Chain

3 m 1/2" Mooring Chain

1890 m Depth
Aquadopp / MicroCAT in cage

1 m 1/2" Mooring Chain

Dualed ORE Acoustic Releases

3 m 1/2" Mooring Chain

4000 lb Ww Anchor

Table A 64 inch Sphere Instrumentation	
Instrument	Serial Number
ADCP	
XEOS Kilo	

Note A
Clamp MicroCat 1 m Below
Upper Termination
Clamp RBR Virtuoso Below MicroCat

Note B
Clamp RBR Virtuoso Below
500 meter Aquadopp
1000 meter Aquadopp

Hardware Required (per mooring without spares)	
(17)	1/2" Anchor Shackle (SH)
(41)	5/8" Anchor Shackle
(2)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(30)	5/8" Sling Link (SL)
(1)	1-1/4" Master Link
(1)	3 ton Swivel with Anode

Hardware Designation	
(A)	(2) 1/2" SH, (1) 5/8" SL
(B)	(1) 1/2" SH, (1) 5/8" SL, (1) 5/8" SH
(F)	(1) 5/8" SH, (1) 5/8" SL, (1) 3/4" SH
(H)	(2) 5/8" SH, (1) 5/8" SL
(J)	(1) 5/8" SH, (1) 5/8" SL, (1) 7/8" SH
(K)	(2) 5/8" SH, (2) 5/8" SL, (1) 7/8" SH
(M)	(1) 1-1/4" Master Link
(L)	(1) 1/2" SH
(S)	3 ton Swivel with Anode
(W)	350 lb Weak Link



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1900 m Depth

Straneo OSNAP Mooring CF-7 To Be Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Straneo 2020 date: 03/19/2020