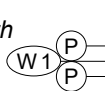


100 m Depth



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

(1) 14" Panther Float 25 m from lower end of Spectra

41.3 m 1/4" Spectra Line



Ocean Research Benthic Instrument Tripod (ORBIT)
with Sentinel 300 kHz ADCP, MicroCAT, AquaDopp,
KILO, Oxygen Optode with Logger, 1000 lb Ww Anchor,
Dual Releases, & (12) 17" Glassballs ← Table A

Depth 144 m

Note B

Note A

Dualing Chain has 5 Links
1/2" Trawler Chain

Table A
Tripod Instrumentation

Instrument	Serial Number
ADCP	
MicroCat	
Aqua Dopp	
Oxygen Optode	
XEOS Kilo	

Hardware Required (per mooring without spares)

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

Hardware Designation

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

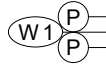


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Pickart OSNAP Mooring LS-1
To Be Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 02/04/2020

100 m Depth



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

(1) 14" Panther Float 33 m from lower end of Spectra

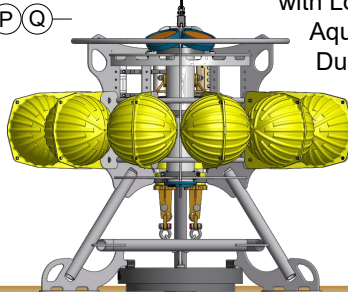
54.3 m 1/4" Spectra Line

← Note A

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

← Note A

Depth 157 m



Note A
Dualing Chain has 5 Links
1/2" Trawler Chain

Table A
Tripod Instrumentation

Instrument	Serial Number
ADCP	
MicroCat	
Aqua Dopp	
XEOS Kilo	

Hardware Required
(per mooring without spares)

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

Hardware Designation

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

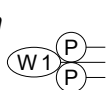


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Pickart OSNAP Mooring LS-2 To Be Deployed 2020

100 m Depth



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

MicroCAT

Note A
Dualing Chain has 5 Links
1/2" Trawler Chain

Table A
Tripod Instrumentation

Instrument	Serial Number
ADCP	
MicroCat	
Aqua Dopp	
Oxygen Optode	
XEOS Kilo	

Hardware Required
(per mooring without spares)

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

Hardware Designation

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

(1) 14" Panther Float 49 m from lower end of Spectra

87.3 m 1/4" Spectra Line



Ocean Research Benthic Instrument Tripod (ORBIT)
with Nortek Signature 100, MicroCAT, AquaDopp,
KILO, Oxygen Optode with Logger, 1000 lb Ww Anchor,
Dual Releases, & (12) 17" Glassballs ← Table A

Depth 190 m

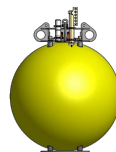
Note B



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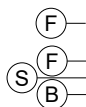
Pickart OSNAP Mooring LS-3 To Be Deployed 2020

100 m Depth



Syntactic Sphere with
300 kHz Workhorse ADCP and
XEOS KILO Iridium GPS Unit

← Table A



5 m 3/4" Mooring Chain
3 ton Swivel

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

← Note A

250 m



Aquadopp / MicroCAT in cage

← Note B



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

500 m



Aquadopp / MicroCAT in cage



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

600 m



Aquadopp / MicroCAT in cage



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



5 m 1/2" Mooring Chain



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



5 m 1/2" Mooring Chain



Dualed ORE Acoustic Releases



5 m 1/2" Mooring Chain



3000 lb Ww Anchor



737 m Depth

Note A
Clamp MicroCat 1 m Below
Upper Termination

Note B
Clamp Oxygen Optode & Logger
Below 250 meter Aquadopp

Table A
Sphere Instrumentation

Instrument	Serial Number
57" Sphere	
ADCP	
XEOS Kilo	

Hardware Required
(per mooring without spares)

(8)	1/2" Anchor Shackle
(26)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(20)	5/8" Sling Link
(1)	1-1/4" Master Link
(1)	3 ton Swivel with Anode

Hardware Designation

(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)	Master Link
(S)	Swivel

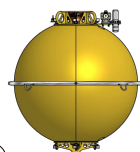


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Pickart OSNAP Mooring LS-4
To Be Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 05/06/2020

100 m Depth



Syntactic Sphere with 300 kHz Workhorse ADCP and XEOS Kilo Iridium GPS Unit

Table A

5 m 3/4" Mooring Chain
3 ton Swivel
PC02 Sensor, Oxygen Optode, & MicroCAT in cage
141.8 m 1/4" Jac.Nil. Wirerope
Aquadopp / MicroCAT in cage
PC02 Sensor and Oxygen Optode in cage

247.7 m 1/4" Jac.Nil. Wirerope

500 m Aquadopp / MicroCAT in cage

247.7 m 1/4" Jac.Nil. Wirerope

750 m Aquadopp / MicroCAT in cage

247.7 m 1/4" Jac.Nil. Wirerope

1000 m Aquadopp / MicroCAT in cage

397.2 m 1/4" Jac.Nil. Wirerope

1400 m Aquadopp / MicroCAT in cage

66 m 1/4" Jac.Nil. Wirerope

5 m 1/4" Jac.Nil. Wirerope

5 m 1/2" Mooring Chain

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

5 m 1/2" Mooring Chain

Dualed ORE Acoustic Releases

5 m 1/2" Mooring Chain
4000 lb Ww Anchor

1521 m Depth



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Pickart OSNAP Mooring LS-5
To Be Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 05/06/2020

Note A
Clamp Oxygen Optode & Logger Below
500 meter Aquadopp
1000 meter Aquadopp

Table A
Sphere Instrumentation

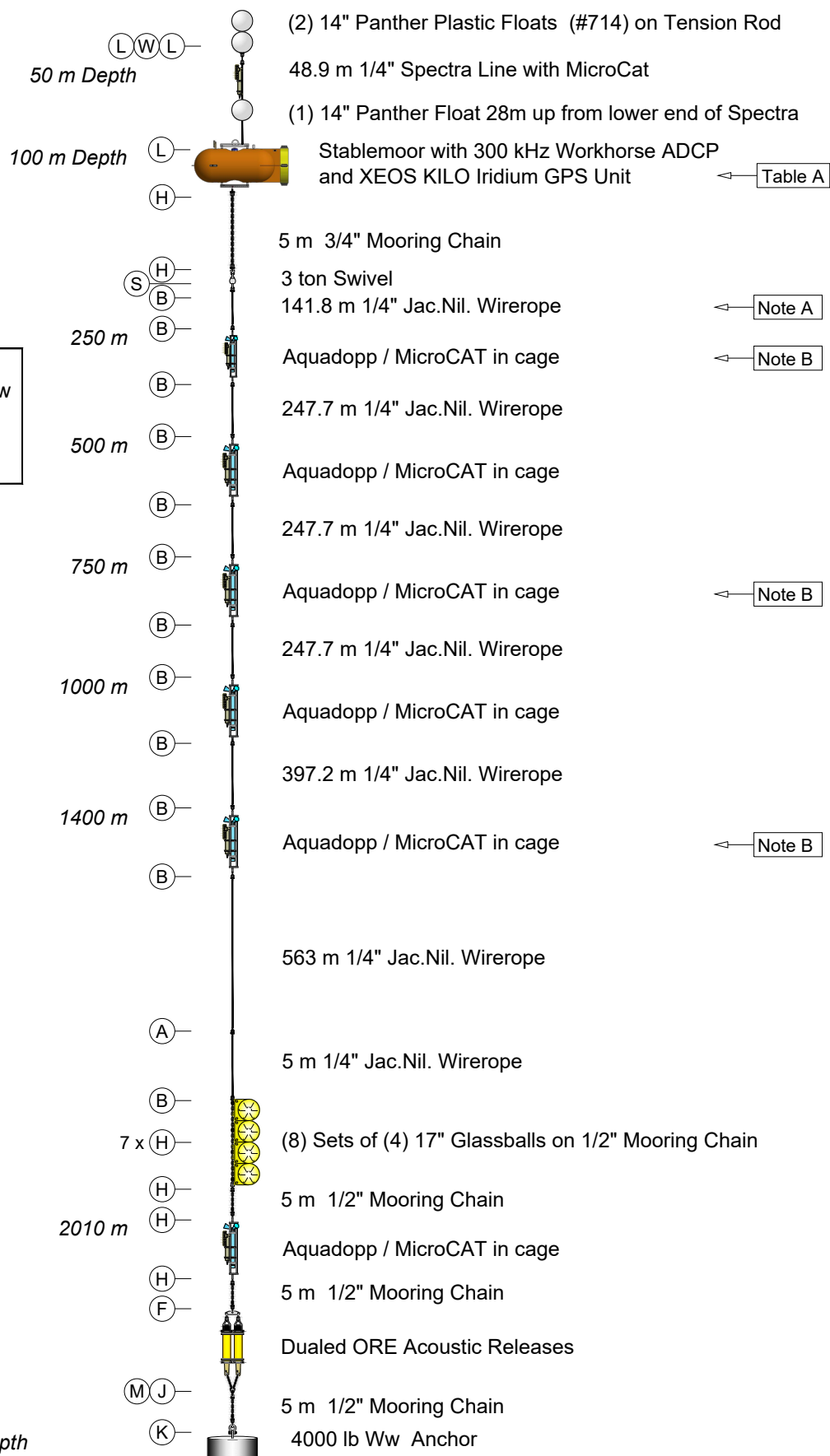
Instrument	Serial Number
64" Sphere	
ADCP	
XEOS Kilo	

Hardware Required
(per mooring without spares)

(13)	1/2" Anchor Shackle
(39)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(29)	5/8" Sling Link
(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
(S)	3 ton Swivel with Anode



Note A
Clamp MicroCat 1 m Below
Upper Termination. Clamp Oxygen Optode
Below MicroCat

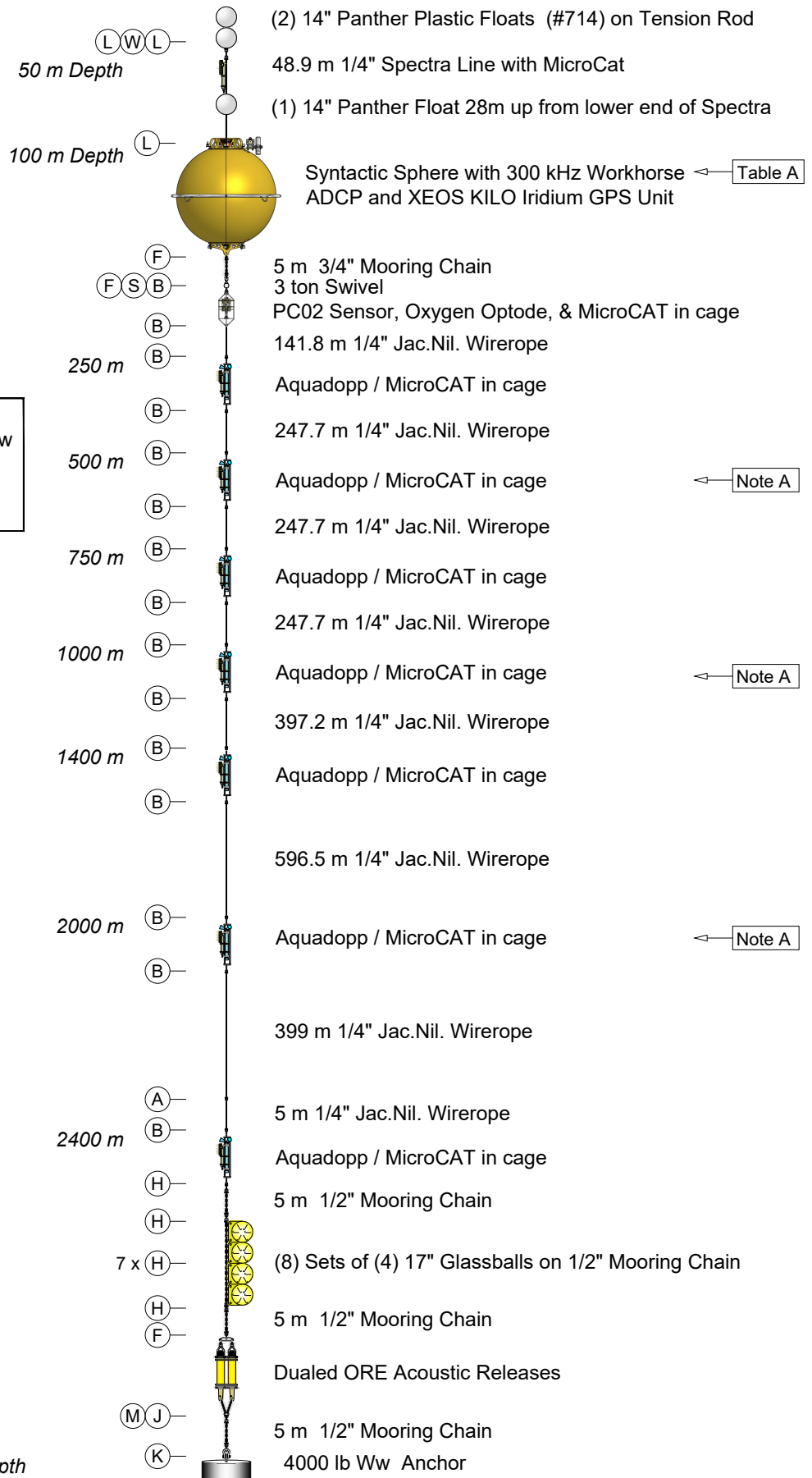
Note B
Clamp Oxygen Optode & Logger Below
250 meter Aquadopp
750 meter Aquadopp
1400 meter Aquadopp

Table A Sphere Instrumentation	
Instrument	Serial Number
Stablemoor	
ADCP	
XEOS Kilo	

Hardware Required (per mooring without spares)	
(17)	1/2" Anchor Shackle
(40)	5/8" Anchor Shackle
(1)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(29)	5/8" Sling Link
(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





Note A
Clamp Oxygen Optode & Logger Below
500 meter Aquadopp
1000 meter Aquadopp
2000 meter Aquadopp

Table A
Sphere Instrumentation

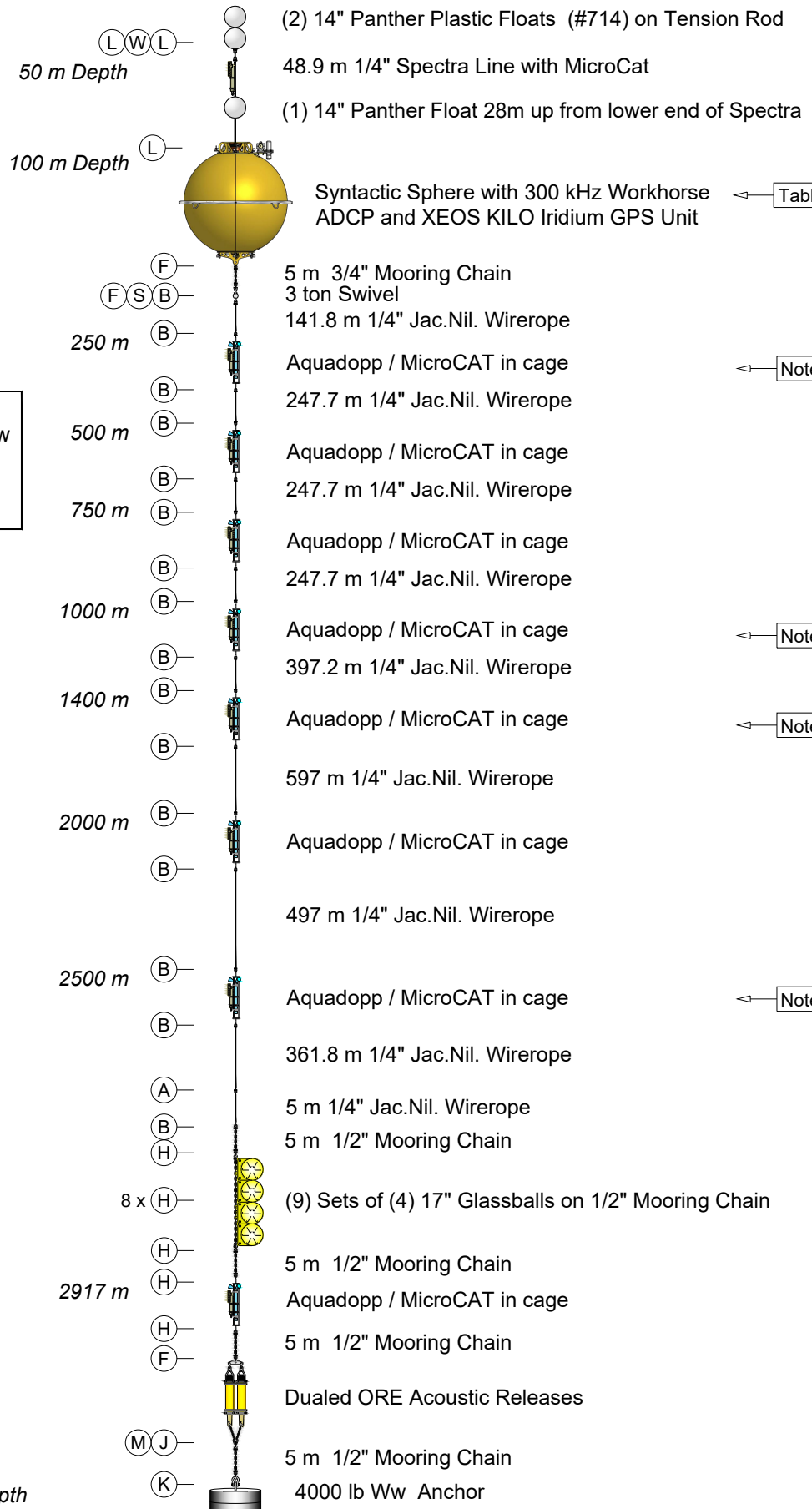
Instrument	Serial Number
64" Sphere	
ADCP	
XEOS Kilo	

Hardware Required
(per mooring without spares)

(20)	1/2" Anchor Shackle
(41)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(32)	5/8" Sling Link
(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



(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

Syntactic Sphere 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. Wirerope

Aquadopp / MicroCAT in cage
 247.7 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 247.7 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 247.7 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 397.2 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 597 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 497 m 1/4" Jac.Nil. Wirerope

Aquadopp / MicroCAT in cage
 361.8 m 1/4" Jac.Nil. Wirerope

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

5 m 1/2" Mooring Chain
 Aquadopp / MicroCAT in cage

5 m 1/2" Mooring Chain
 Dual ORE Acoustic Releases

5 m 1/2" Mooring Chain
 4000 lb Ww Anchor

Note A
 Clamp MicroCat 1 m Below
 Upper Termination. Clamp Oxygen Optode
 Below MicroCat

Note B
 Clamp Oxygen Optode & Logger Below
 1000 meter Aquadopp
 1400 meter Aquadopp
 2500 meter Aquadopp

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

Hardware Required (per mooring without spares)	
(21)	1/2" Anchor Shackle
(46)	5/8" Anchor Shackle
(3)	3/4" Anchor Shackle
(2)	7/8" Anchor Shackle
(35)	5/8" Sling Link
(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

75 m Depth

W1 P P

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

(1) 14" Panther Float 27 m up from lower end of Spectra

43.2 m 1/4" Spectra Line

Note A
Dualing Chain has 5 Links
1/2" Trawler Chain

Table A
Tripod Instrumentation

Instrument	Serial Number
ADCP	
MicroCat	
Aqua Dopp	
XEOS Kilo	

Hardware Required
(per mooring without spares)

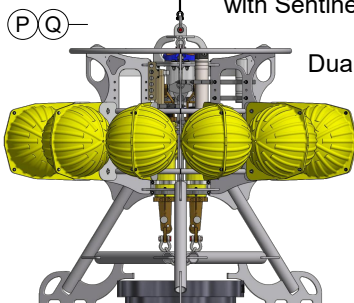
(1)	3/8" Anchor Shackle
(3)	1/2" Anchor Shackle
(1)	250 lb Weak Link

Hardware Designation

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

Ocean Research Benthic Instrument Tripod (ORBIT) with Sentinel 300 kHz ADCP, MicroCAT, AquaDopp, KILO, 1000 lb Ww Anchor, Dual Releases, & (12) 17" Glassballs

Table A



Depth 121 m

Note A

75 m Depth

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

(1) 14" Panther Float 33 m up from lower end of Spectra

56.3 m 1/4" Spectra Line

Note A
Dualing Chain has 5 Links
1/2" Trawler Chain

Table A
Tripod Instrumentation

Instrument	Serial Number
ADCP	
MicroCat	
Aqua Dopp	
XEOS Kilo	

Hardware Required
(per mooring without spares)

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

Hardware Designation

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

Ocean Research Benthic Instrument Tripod (ORBIT) with Sentinel 300 kHz ADCP, MicroCAT, AquaDopp, KILO, 1000 lb Ww Anchor, Dual Releases, & (12) 17" Glassballs

Table A

Note A

Depth 134 m



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Pickart OSNAP Mooring LS-B
To Be Deployed 2020

Woods Hole Oceanographic Institution
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file: OSNAP Pickart 2020 date: 02/04/2020