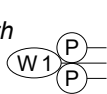


100 m Depth



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

MicroCAT (s/n 14713)
Oxygen Optode (s/n 204682)

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

41.3 m 1/4" Spectra Line

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

Table A
Tripod Instrumentation

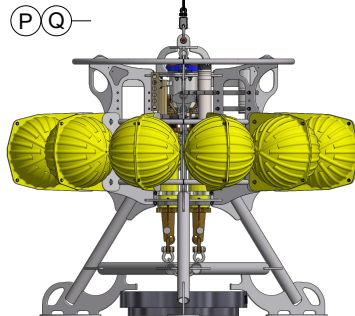
| Instrument | Serial Number |
|------------|-----------------|
| ADCP | 17123 |
| MicroCat | 14619 |
| Aqua Dopp | 12440 |
| XEOS Kilo | 300234068729110 |

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, Xeos Kilo, 1000 lb Ww Anchor, Dual Releases, and (12 ea) 17" Glassballs

← Table A

← Note A

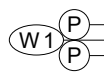
Depth 144 m



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Pickart OSNAP Mooring LS-1 As Deployed 2020

100 m Depth



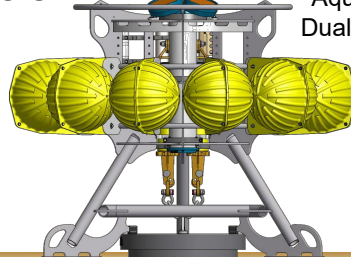
(2) 14" Panther Plastic Floats (#714) on Tension Rod
MicroCAT

(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 ea) 17" Glassballs



Depth 157 m

← Note A

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

| Instrument | Serial Number |
|------------|-----------------|
| ADCP | 15418 |
| MicroCat | 14620 |
| Aqua Dopp | 12453 |
| XEOS Kilo | 300234068724620 |

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

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



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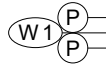
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Pickart OSNAP Mooring LS-2

As Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 01/04/2022

100 m Depth



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

MicroCAT (s/n 14717)
Oxygen Optode (s/n 204684)

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

87.3 m 1/4" Spectra Line

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

| Table A Tripod Instrumentation | |
|-----------------------------------|-----------------|
| Instrument | Serial Number |
| ADCP | 101606 |
| MicroCat | 14621 |
| Aqua Dopp | 12451 |
| XEOS Kilo | 300234062164200 |

| 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 |

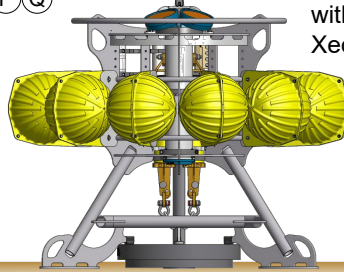


Ocean Research Benthic Instrument Tripod (ORBIT) with Nortek Signature 100, MicroCAT, AquaDopp, Xeos Kilo, 1000 lb Ww Anchor, Dual Releases, and (12 ea) 17" Glassballs

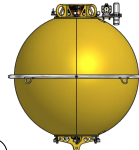
← Table A

← Note B

Depth 190 m

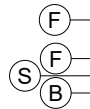


100 m Depth



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

← Table A



5 m 3/4" Mooring Chain
3 ton Swivel

MicroCAT

141.8 m 1/4" Jac.Nil. Wirerope

← Note A

250 m (B)

Aquadopp / MicroCAT in cage

← Note B



247.7 m 1/4" Jac.Nil. Wirerope

500 m (B)

Aquadopp / MicroCAT in cage



98.4 m 1/4" Jac.Nil. Wirerope

600 m (B)

Aquadopp / MicroCAT in cage



95.6 m 1/4" Jac.Nil. Wirerope



5 m 1/2" Mooring Chain



4 x (H)

(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 |
| 64" Sphere | 19 |
| ADCP | 14297 |
| XEOS Kilo | 300234063956250 |

| 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 |

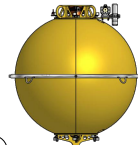


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Pickart OSNAP Mooring LS-4 As Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 01/04/2022

100 m Depth



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

← Table A

(F)
(F) (S) (B)

5 m 3/4" Mooring Chain
3 ton Swivel

105 m

PCO2 Sensor & MicroCAT in cage

← Note A

250 m

141.8 m 1/4" Jac.Nil. Wirerope

← Note A

Aquadopp / MicroCAT in cage

(H)

PCO2 Sensor and Oxygen Optode in cage

← Note A

(H)

247.7 m 1/4" Jac.Nil. Wirerope

500 m

Aquadopp / MicroCAT in cage

← Note A

(B)

247.7 m 1/4" Jac.Nil. Wirerope

750 m

Aquadopp / MicroCAT in cage

(B)

247.7 m 1/4" Jac.Nil. Wirerope

1000 m

Aquadopp / MicroCAT in cage

← Note A

(B)

397.2 m 1/4" Jac.Nil. Wirerope

1400 m

Aquadopp / MicroCAT in cage

(B)

66 m 1/4" Jac.Nil. Wirerope

(A)

5 m 1/4" Jac.Nil. Wirerope

(B)

4 m 1/2" Mooring Chain

(H)

6 x (H)

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

(H)

5 m 1/2" Mooring Chain

(F)

Dualed ORE Acoustic Releases

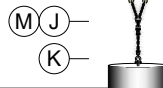
(M) (J)

5 m 1/2" Mooring Chain

(K)

4000 lb Ww Anchor

1501 m Depth



Note A
Clamp Oxygen Optode & Logger Below
105 meter PCO2 Cage (w/ RBR)
250 meter Aquadopp (w/ RBR)
500 meter Aquadopp
1000 meter Aquadopp

| Table A Sphere Instrumentation | |
|-----------------------------------|-----------------|
| Instrument | Serial Number |
| 64" Sphere | 16 |
| ADCP | 14445 |
| XEOS Kilo | 300234063169510 |

| 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 |

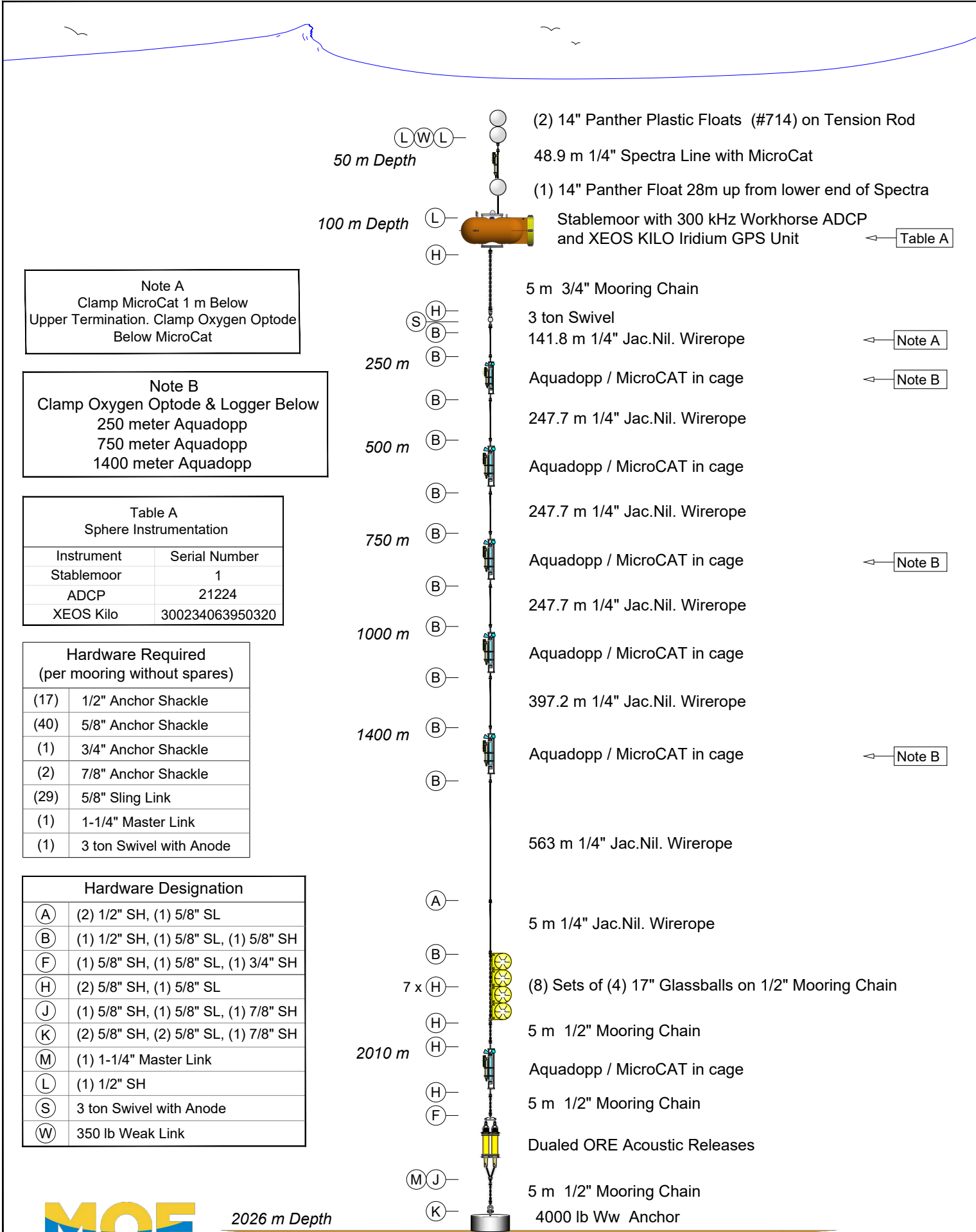


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Pickart OSNAP Mooring LS-5 As Deployed 2020

Woods Hole Oceanographic Institution
designed by John Kemp, drawn by Jim Ryder
file: OSNAP Pickart 2020 date: 01/04/2022



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 | 1 |
| ADCP | 21224 |
| XEOS Kilo | 300234063950320 |

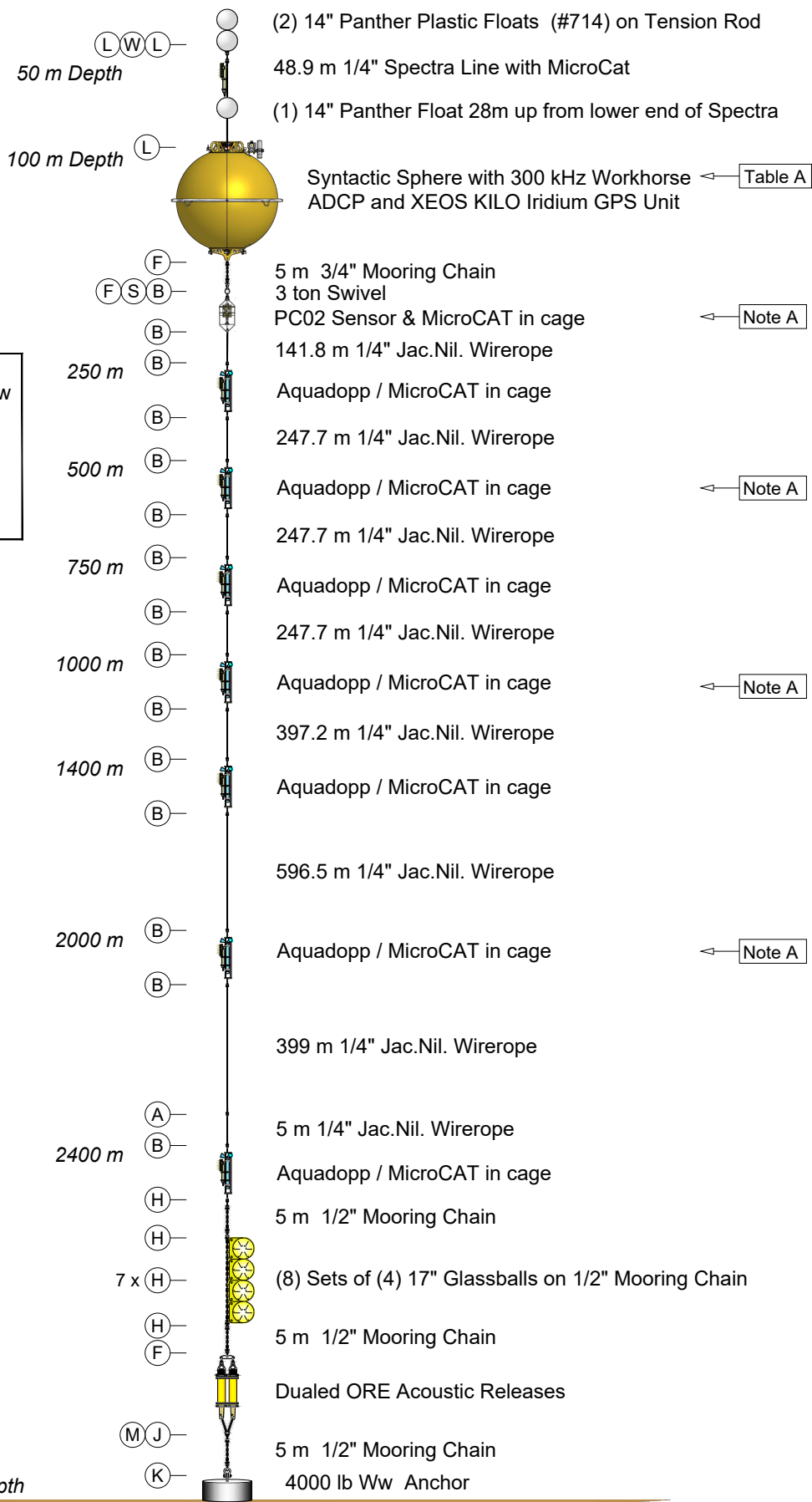
| Hardware Required (per mooring without spares) | |
|---|-------------------------|
| (17) | 1/2" Anchor Shackle |
| (40) | 5/8" Anchor Shackle |
| (1) | 3/4" Anchor Shackle |
| (2) | 7/8" Anchor Shackle |
| (29) | 5/8" Sling Link |
| (1) | 1-1/4" Master Link |
| (1) | 3 ton Swivel with Anode |

| 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 |



2026 m Depth

Pickart OSNAP Mooring LS-6 As Deployed 2020



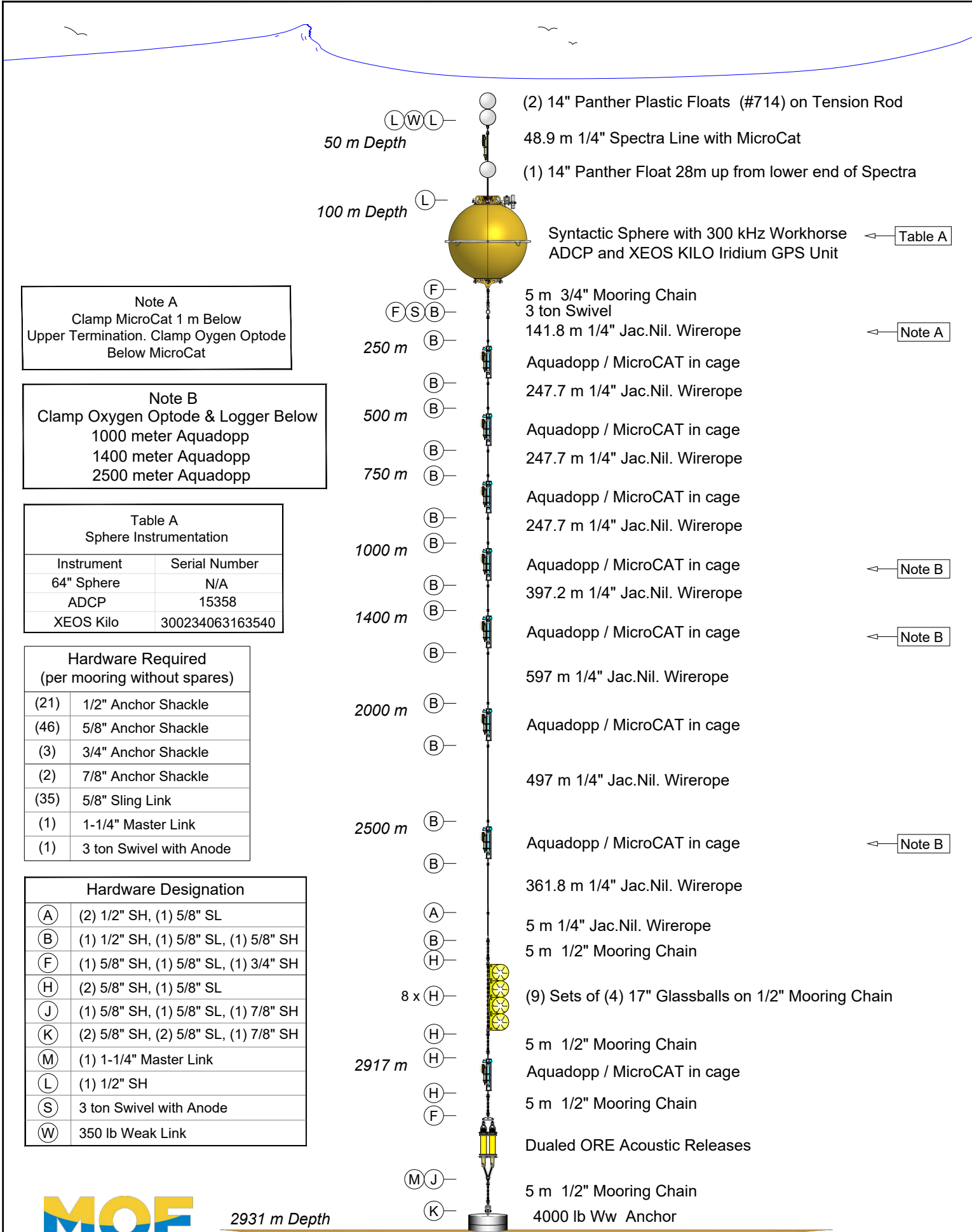
Note A
 Clamp Oxygen Optode & Logger Below
 PCO2 Cage
 141.8 m 1/4" Wirerope
 500 meter Aquadopp
 1000 meter Aquadopp
 2000 meter Aquadopp

| Instrument | Serial Number |
|------------|-----------------|
| 64" Sphere | 17 |
| ADCP | 15356 |
| XEOS Kilo | 300234062167190 |

| | |
|------|-------------------------|
| (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 |

| | |
|-----|---------------------------------------|
| (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 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 | N/A |
| ADCP | 15358 |
| XEOS Kilo | 300234063163540 |

| 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 |



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2931 m Depth

Pickart OSNAP Mooring LS-8 As Deployed 2020

Woods Hole Oceanographic Institution
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75 m Depth
 W1 P P

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

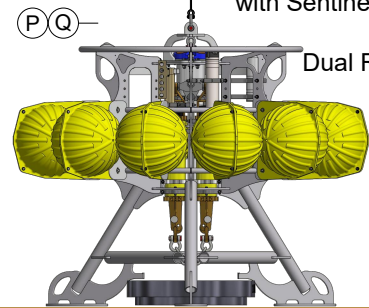
(1) 14" Panther Float 27 m up from lower end of Spectra

43.2 m 1/4" Spectra Line

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

← Note A

Depth 121 m



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

Table A
 Tripod Instrumentation

| Instrument | Serial Number |
|------------|-----------------|
| ADCP | 2130 |
| MicroCat | 16806 |
| Aqua Dopp | 12455 |
| XEOS Kilo | 300234068720610 |

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 |



75 m Depth (W1) (P) (P) (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 | 15497 |
| MicroCat | 16868 |
| Aqua Dopp | 14464 |
| XEOS Kilo | 300234068724110 |

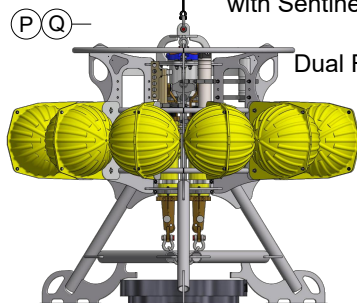
Hardware Required
(per mooring without spares)

| | |
|-----|---------------------|
| (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) ← **Table A**
with Sentinel 300 kHz ADCP, MicroCAT, AquaDopp,
KILO, 1000 lb Ww Anchor,
Dual Releases, & (12 ea) 17" Glassballs



← **Note A**

Depth 134 m

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

Table A
 Tripod Instrumentation

| Instrument | Serial Number |
|------------|-----------------|
| ADCP | 2225 |
| MicroCat | 7584 |
| Aqua Dopp | 14460 |
| XEOS Kilo | 300234060374100 |

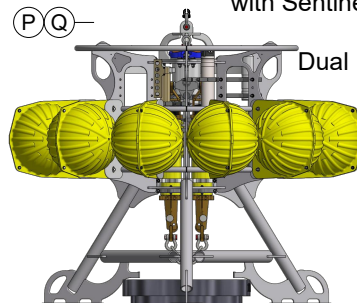
Hardware Required
 (per mooring without spares)

| | |
|-----|---------------------|
| (1) | 3/8" Anchor Shackle |
| (3) | 1/2" Anchor Shackle |

Hardware Designation

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

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



Depth 129 m

← Note A