OSNAP 2014 R/V Knorr

Deck Load Estimates

July 23, 2013

OSNAP 2014 Leg 0

Proposed start port: Woods Hole or St. John’s

Proposed end port: St. John’s

1. WHOI (PI: Bower) (3 sound source moorings)

Anchors: 4 x 2400 lbs (1 spare)

Wire: 3 x 2000 m

Flotation: 3 x 25 17” spheres

Sources: 3 x (300 lbs, 18” x 75” footprint)

Releases: none

OSNAP 2014 Leg 1

Proposed start port: St. John’s

Proposed end port: Reykjavik

1. WHOI (PIs: Bob Pickart and Fiamma Straneo)



1. NOC (PI: Sheldon Bacon)

3/16" wire 1000m

4mm wire 150m

1/4" wire 1000m

10mm polyester 5446m

Anchor  4000kg

17" glass spheres 85

Billings float 4

Large syntactic 1

Small syntactic 1

1. WHOI (PI: Amy Bower) (3 sound source moorings)

Anchors: 4 x 2500 lbs (1 spare)

Wire: 3 x 2000 m

Flotation: 3 x 25 17” spheres

Sources: 3 x (300 lbs, 18” x 75” footprint)

Releases: 3 x 2 per mooring

OSNAP 2014 Leg 2

Proposed start port: Reykjavik

Proposed end port: Reykjavik or Scotland

1. NIOZ (PI: Laura de Steur) (one tall central Irminger Sea mooring and 4 IC/OSNAP moorings)

5 x wire spools (ranging from 1500 to 3000) with approximate volume ~1 m^3 each

5 x 1000 k anchors

6 x large floatation buoys with approximate diameter 1.70 m, height 1 m, each

1 McClain Profiler

5 LR ADCPs and other instruments/releases/gear/etc (in cases) approximately 5 to 6 m^3 total (?)

1. RSMAS (PIs: William Johns and Amy Bower) (4 tall and 4 short moorings)

Equipment (deck):

5 50" syntactics (750-1000 lb. ea.)

4 36" syntactics (450 lb. ea.)

10 wire spools (total wire length 12,000 m, 1/4" Nilspin)

30 strings of 17" glass balls in hardhats (total 150 glass floats, stored in 15 4'x4' wire baskets)

9 anchors (5@3500 lb, 4@1500 lb)

Electronics (lab):

14 Edgeteck acoustic releases

30 Nortek current meters

62 Seabird microcat 37-SM

4 150 kHz ADCPs

* Can we request a double barrel capstain winch for the mooring deployments?

1. Scotland Association of Marine Science (SAMS) (PI: Stuart Cunningham) (4 moorings)

3/16" wire 4090m

Anchor  4900kg

17" glass spheres 101

Billings float 1

Large syntactic 2

Small syntactic 2

Plus 2  LR ADCPs and their trawl-proof frames.

1. WHOI (PI: Amy Bower) (3 sound source moorings)

Anchors: 3 x 2500 lbs

Wire: 3 x 2000 m

Flotation: 3 x 25 glass spheres and hard hats

Sources: 3 x (300 lbs, 18” x 75” footprint)

Releases: 3 x 2 per mooring