

Company : LDEO
Vessel : Marcus G.Langseth
Client : NSF

Project : MGL1305
Area : Mid - Atlantic Ridge
Start Date : 09 April 2013



Vessel Sensor Offsets

Towing Offsets

Acoustic Offsets

Gun Array Offsets

Gun Configuration

Streamer Front End

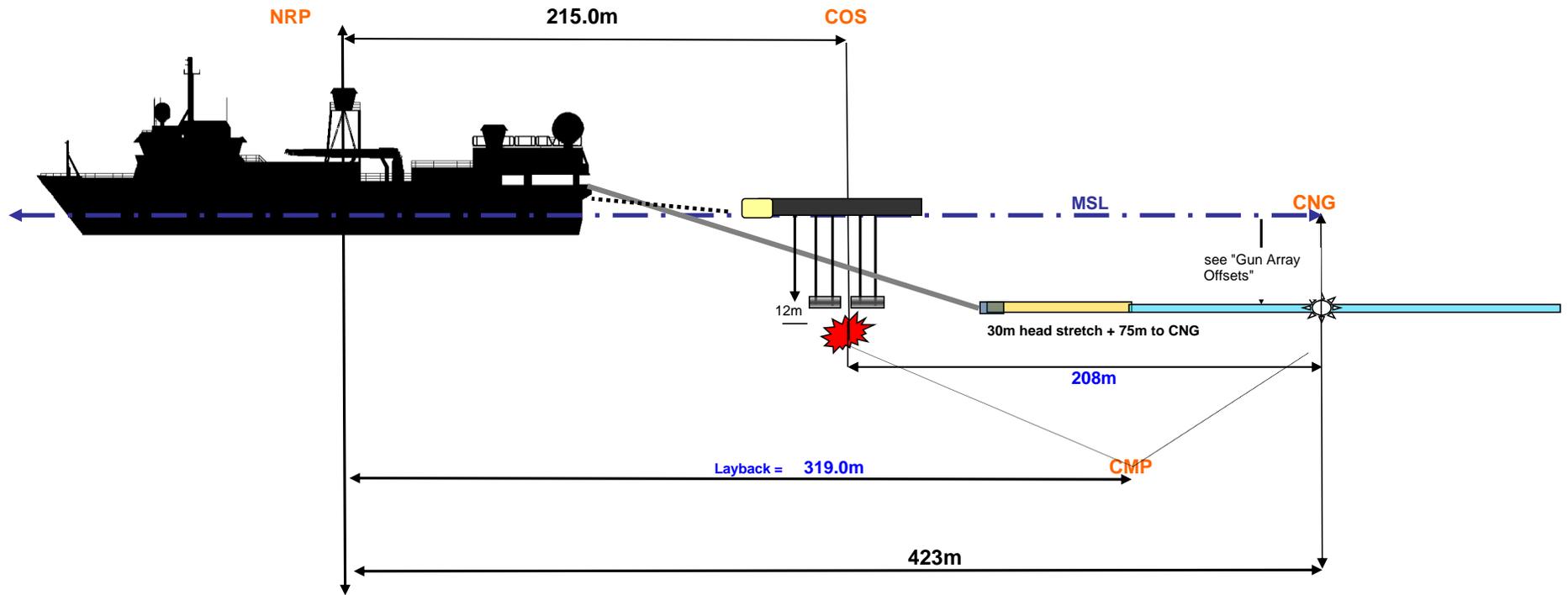
Tailbuoy Offsets

Timing Langseth

Timing Spectra



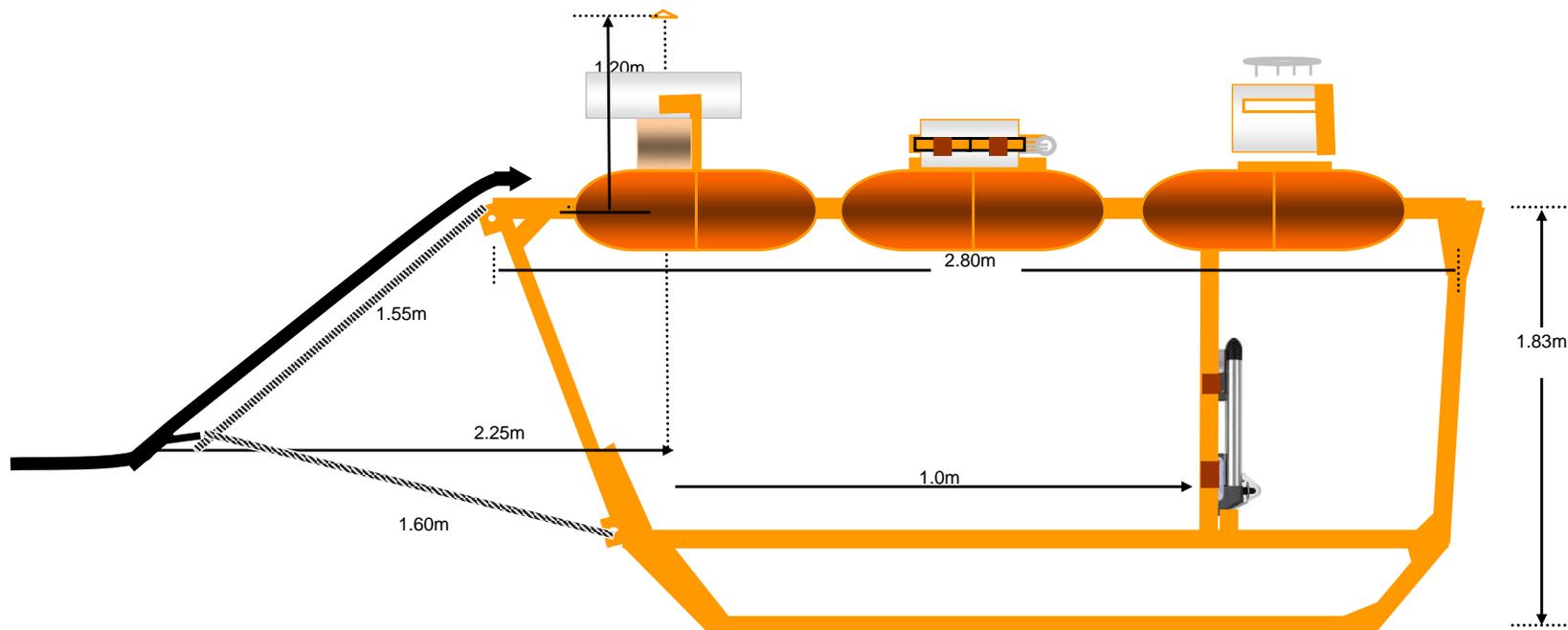
R/V Marcus G. Langseth - Towing Offsets



NRP-Stern	29.5m				
NRP-COS	215m			NRP	Nav Reference Point
NRP-CNG	423m			COS	Centre of Source
COS-CNG	208m			CNG	Centre of Near Group (Trace # 636)
NRP-CMP	319m			CMP	Common Mid-Point
				MSL	Mean Sea Level

All measurements in meters

R/V Marcus G. Langseth - Tailbouy



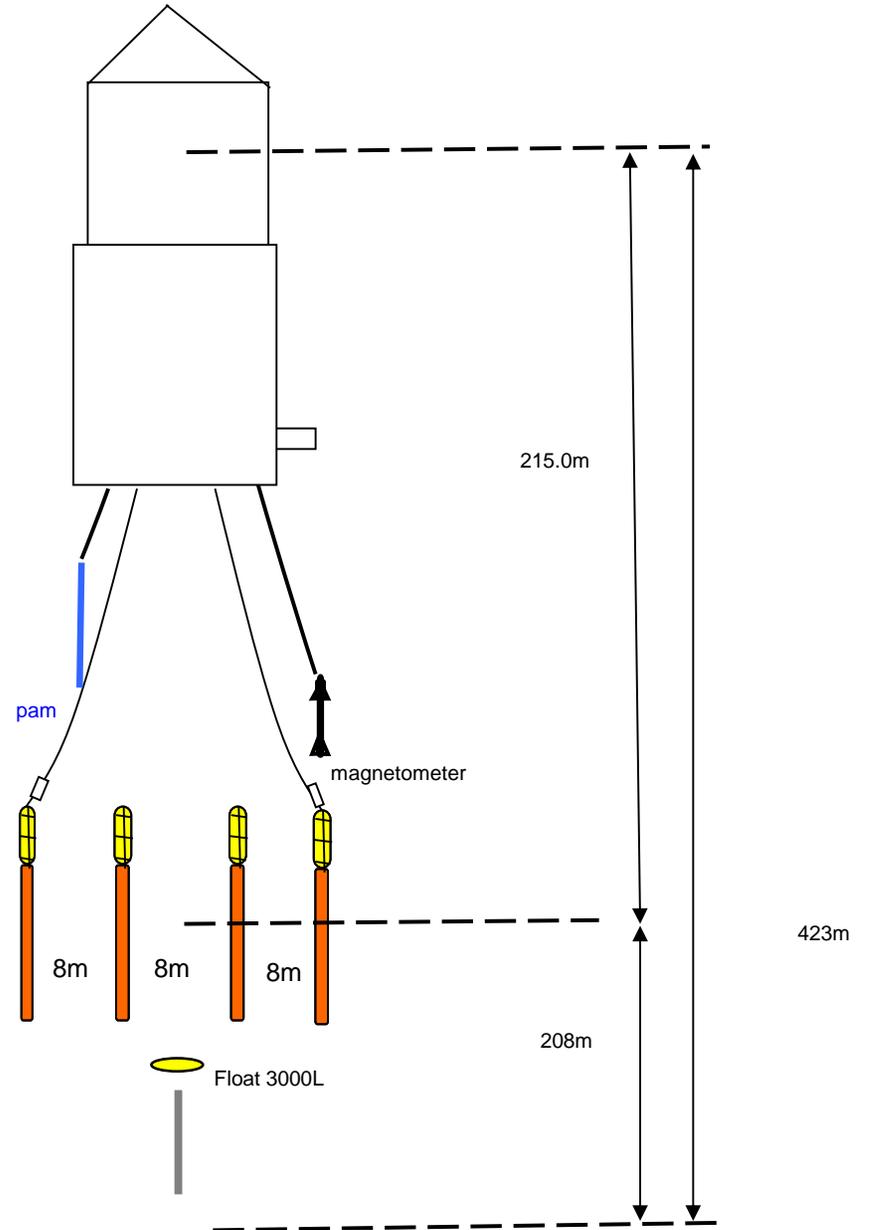
All measurements in meters



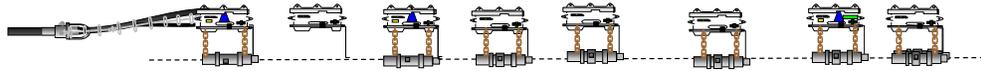
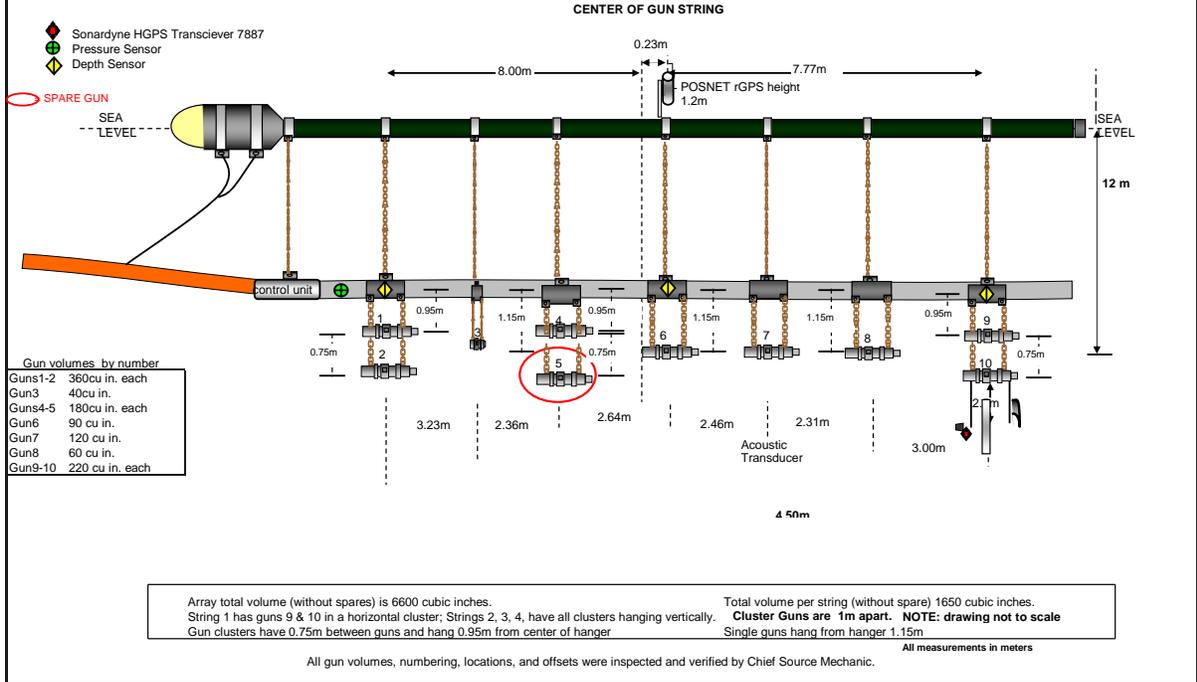
R/V Marcus G. Langseth "tow" configuration

R/V Marcus Langseth
1 x 8100
4 Gunstrings

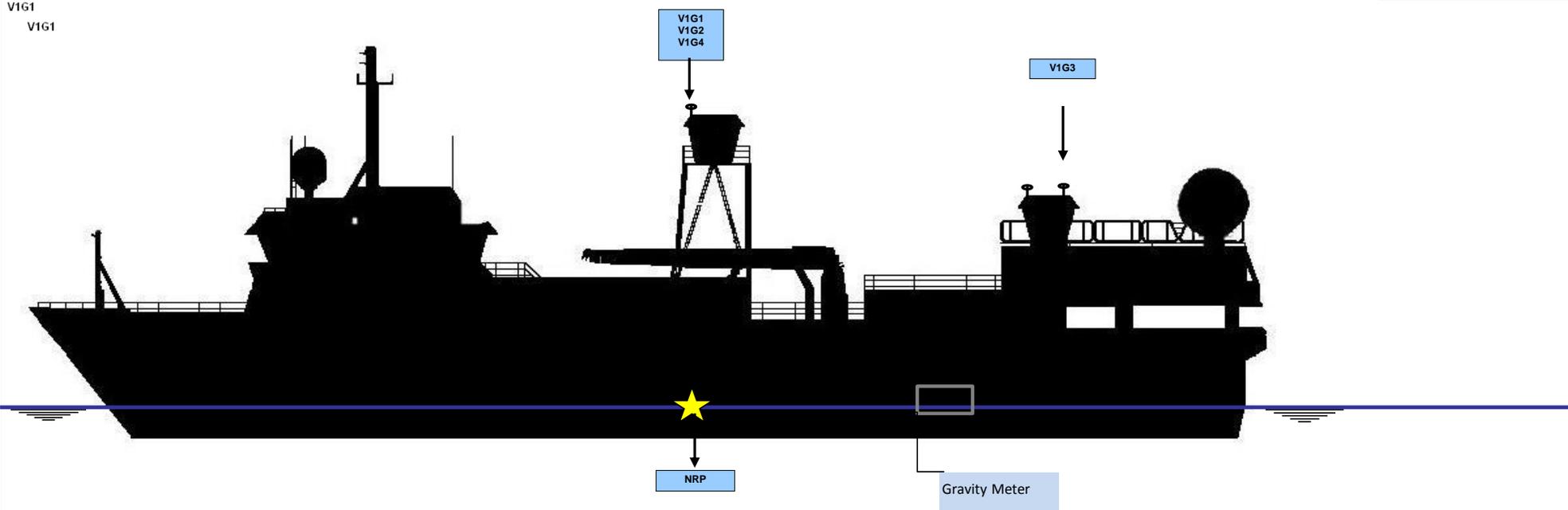
NOT to Scale



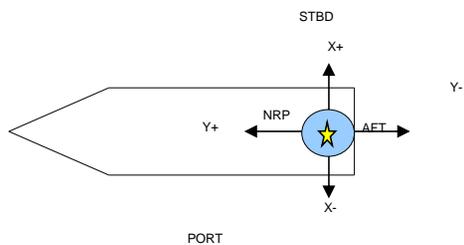
R/V Marcus G. Langseth - Gun Array Offsets



V1G1
V1G1



All measurements in meters



		STBD/PORT (X)	FORE/AFT (Y)	UP/DOWN (Z)
NRP	NAVIGATION REFERENCE POINT	0.00	0.00	0.00
V1G1	C-Nav 3050	0.00	0.00	-16.90
V1G2	SeaPath 200	0.00	1.50	-16.90
V1G3	C-Nav 2000	4.87	-15.27	-14.50
V1G4	Pos MV	-1.30	1.20	-16.90
V1R1	PosNet	-1.30	0.00	-16.90
EM122	Multibeam Transducer Array	0.00	20.20	7.49
MRU	Seapath MRU	2.30	-14.16	-4.30
BGM	Bell Gravity Meter	4.40	-13.10	-3.49

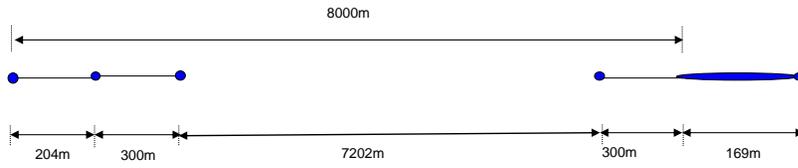
Note: All Echosounders are used in Spectra with 6.6m ship's draft correction applied.



R/V Marcus G. Langseth - Acoustic Offsets

Digicourse Digirange Acoustics

- HGPS Transceiver 7887 & Shock Mounted Transducer 7660
- XSR8 8005 Acoustic Transceiver (Longlife Battery)



All measurements in meters

r/v Marcus G. Langseth - Gun Configuration

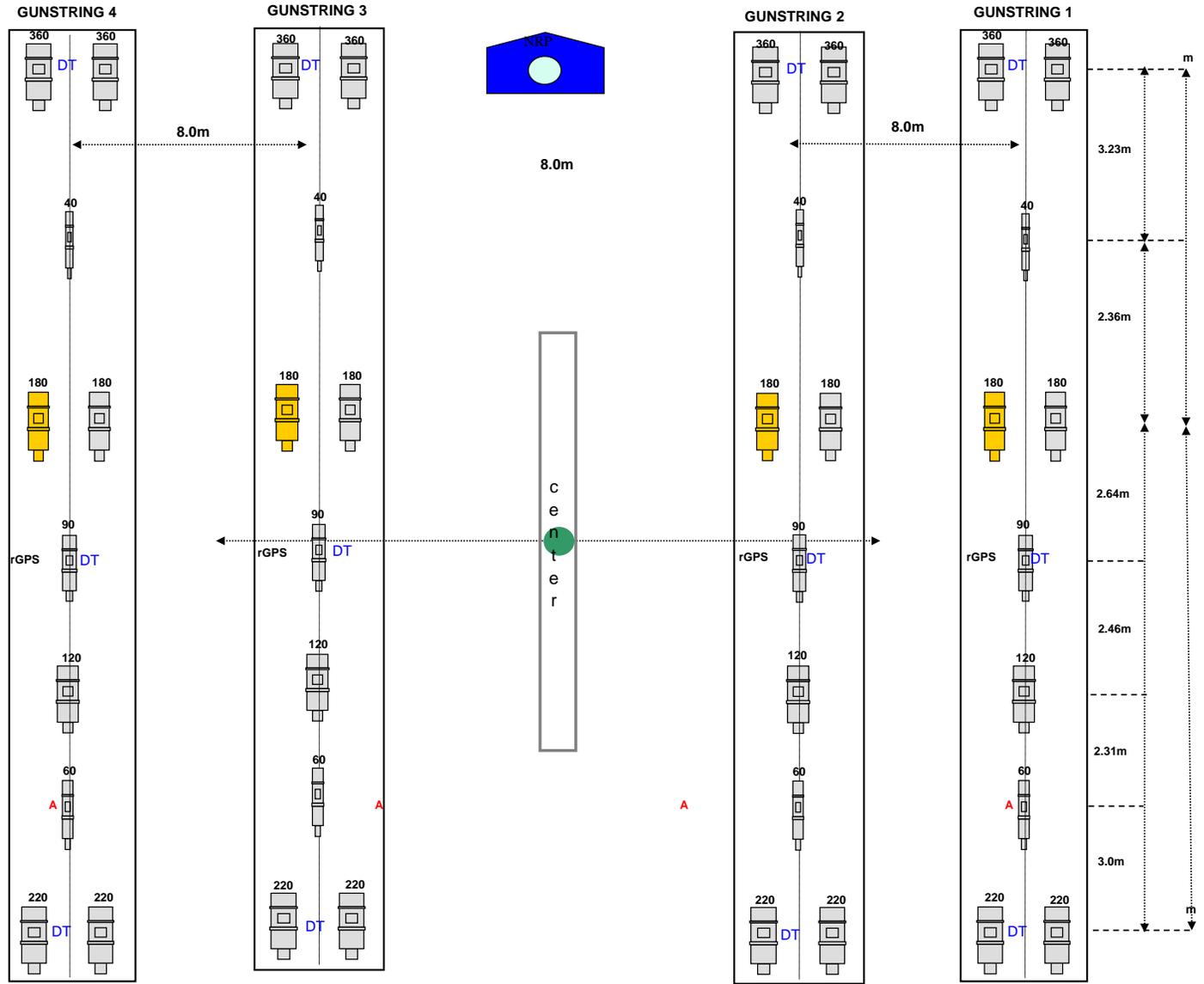
DT = Depth Transducer
 A = Acoustic
 P = Pressure Sensor - located in front of gun's 1 & 2

● Center of Source 1 & 2

Spare Gun

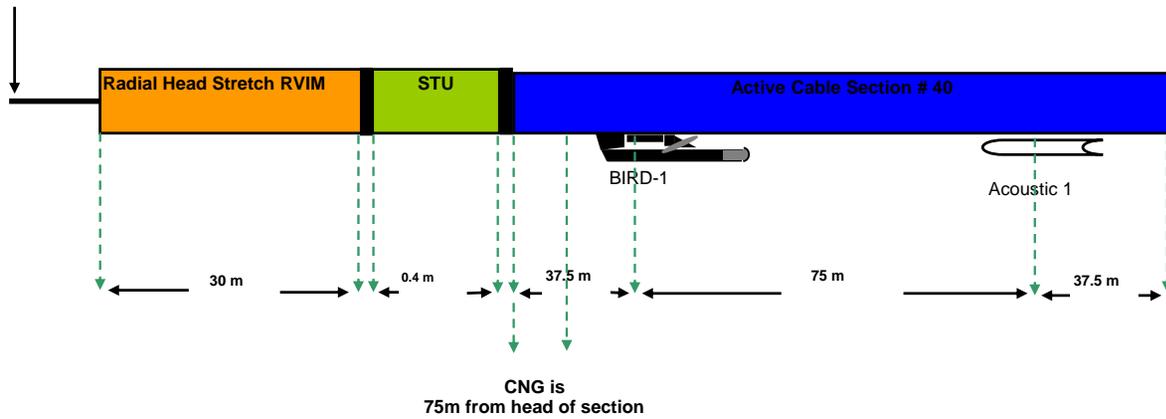
Cluster Guns are mounted 1m apart
 Cluster 1 cluster 9 & 10 mounted horizontally
 Cluster 2, 3, & 4 all clusters mounted vertically.

All measurements in meters

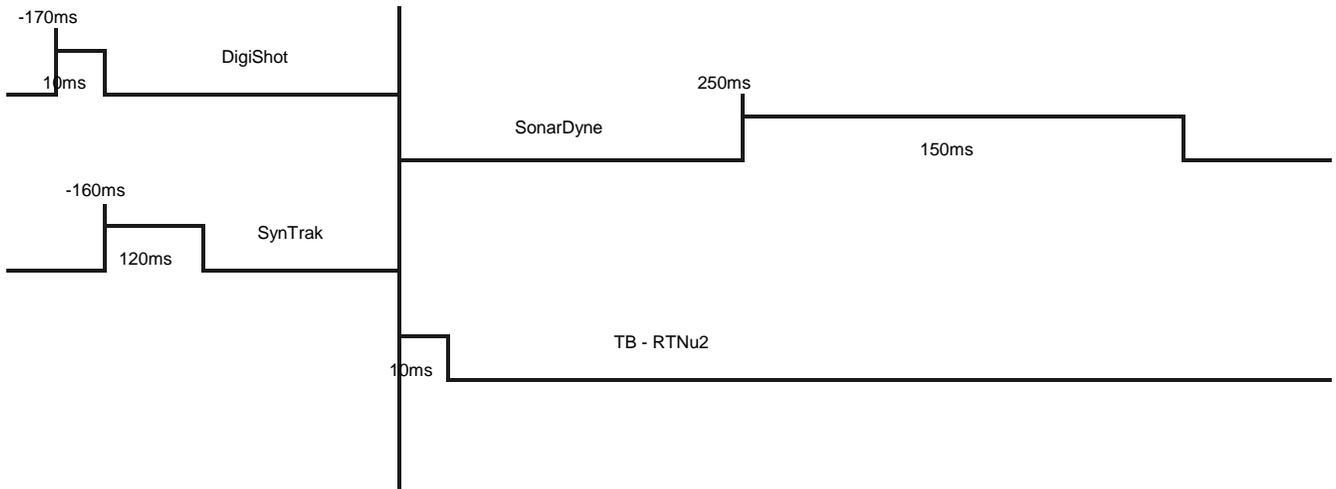


R/V Marcus G. Langseth - Streamer Front End

Lead-in:
Outer = 505m
Inner = 465m



TO Shot Predict



Spectra timing for r/v Marcus G. Langseth

