

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

Project : MGL1212
Area : Cascadia
Start Date : 10 July 2012



Vessel Sensor Offsets

Towing Offsets

Acoustic Offsets

Gun Array Offsets

Gun Configuration

Streamer Front End

Tailbuoy Offsets

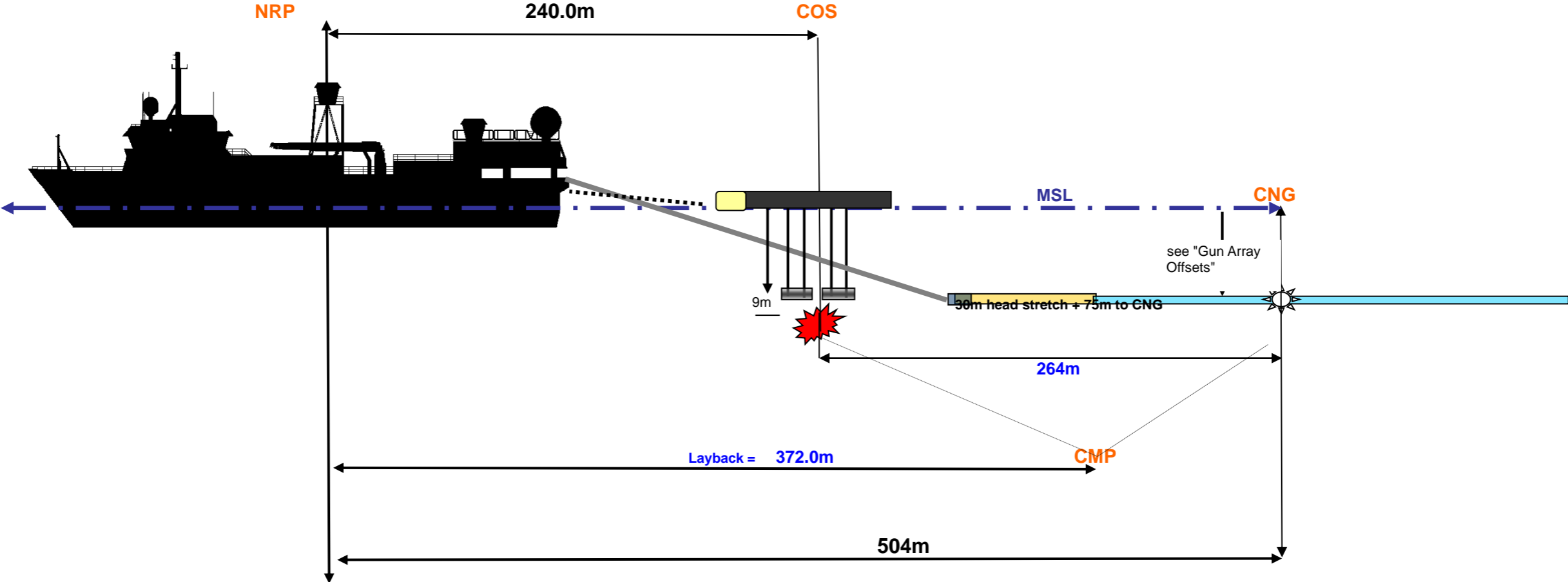
Timing Langseth

Timing Spectra



R/V Marcus G. Langseth - Towing Offsets

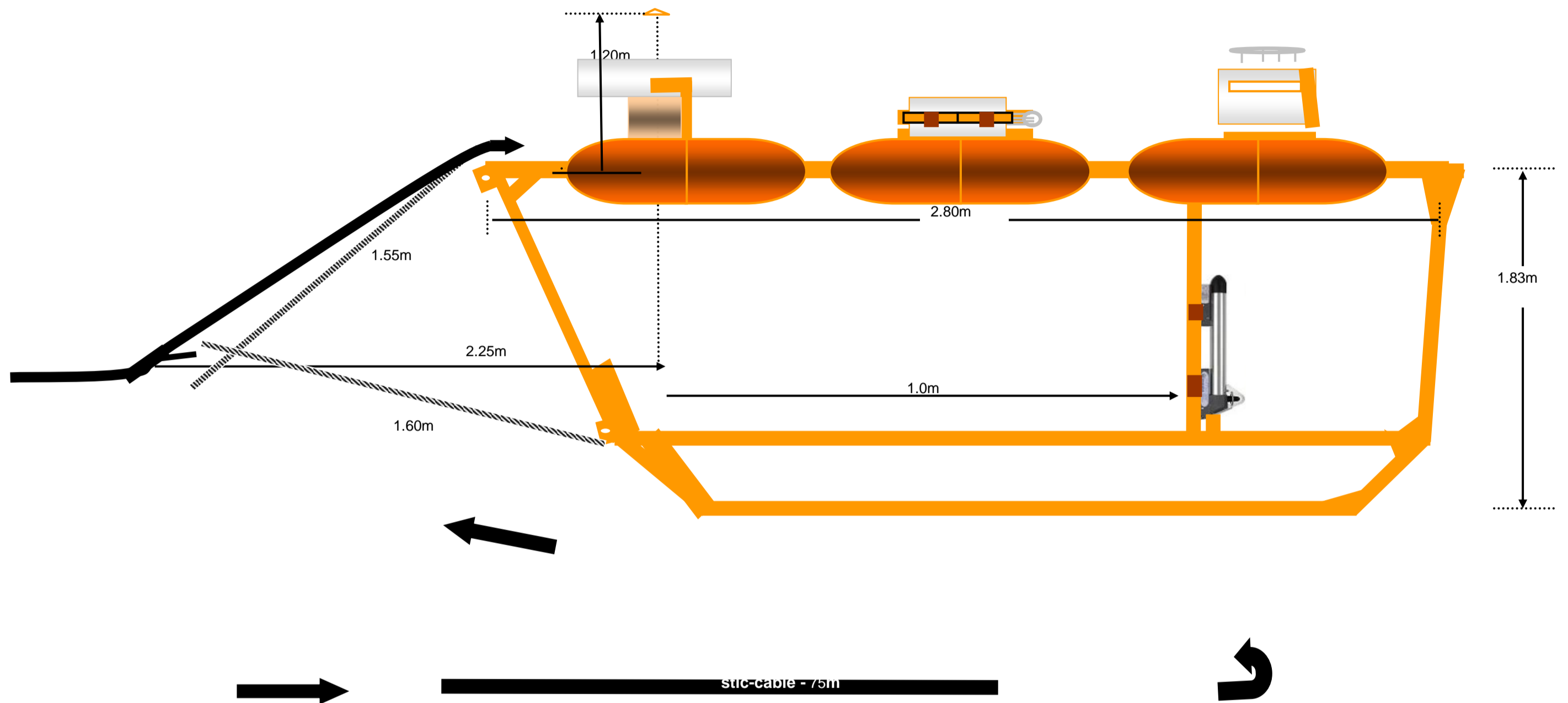
All Sequences 001 - 025 @ 264m COS - CNG



*** Offsets used for all acquisition seq 01 - 25 ***				
NRP-Stern	29.5m		NRP	Nav Reference Point
NRP-COS	240m		COS	Centre of Source
NRP-CNG	504m		CNG	Centre of Near Group (Trace # 468)
COS-CNG	264m		CMP	Common Mid-Point
NRP-CMP	372m		MSL	Mean Sea Level

All measurements in meters

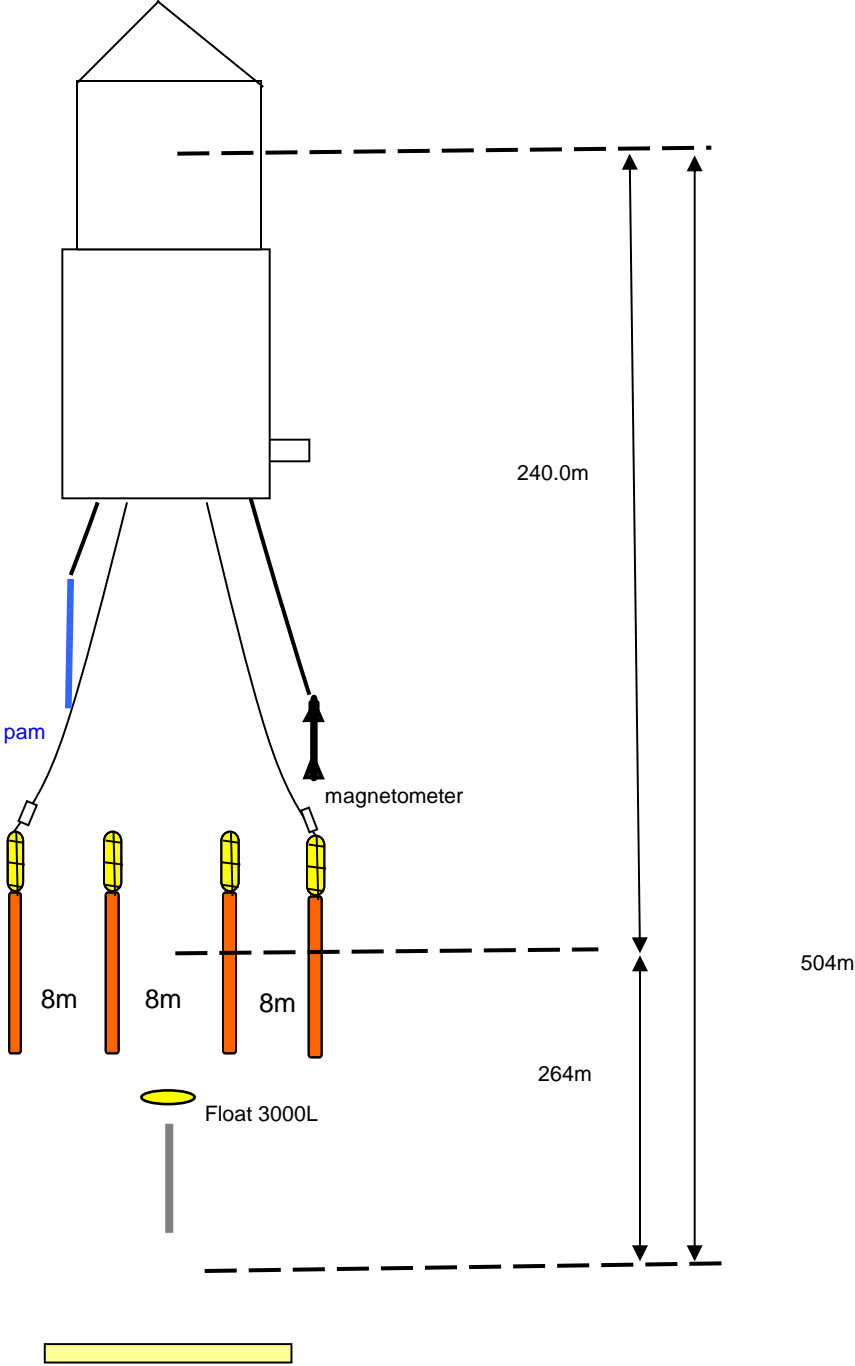
R/V Marcus G. Langseth - Tailbouy

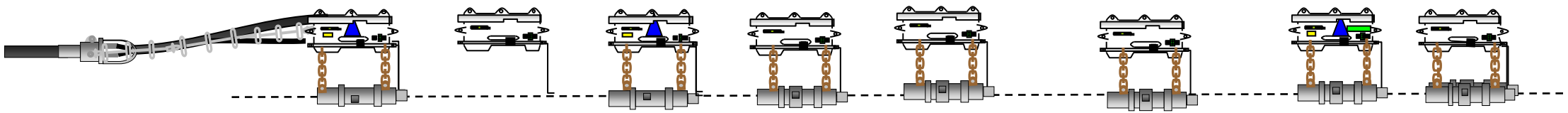
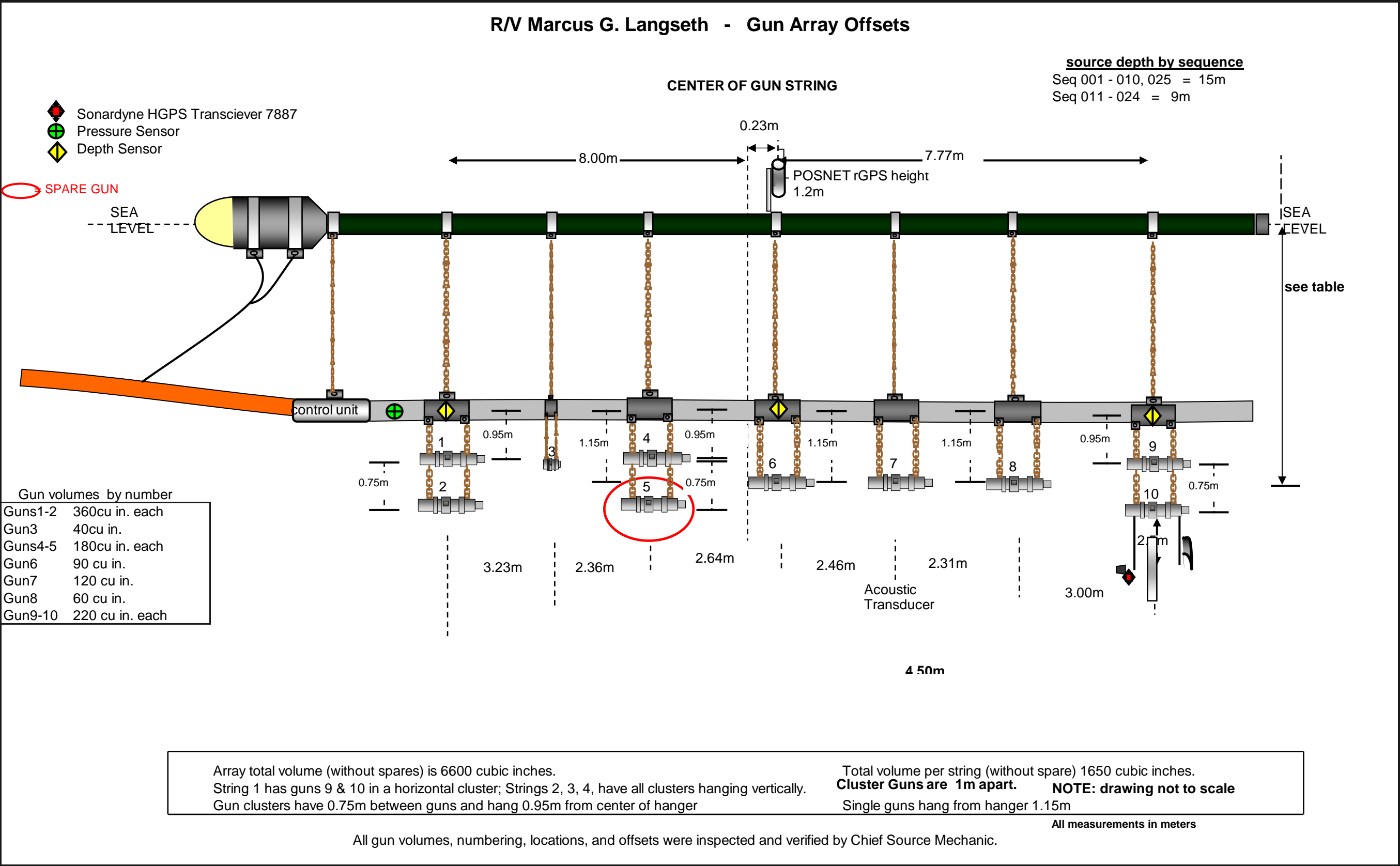


R/V Marcus G. Langseth "tow" configuration

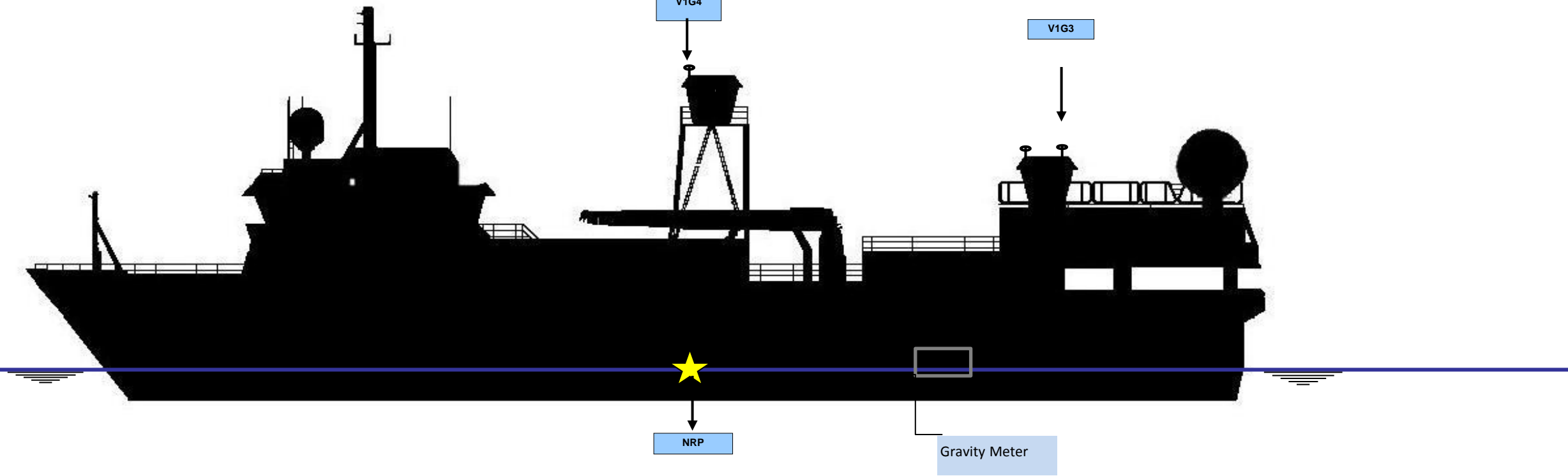
R/V Marcus Langseth
1 x 8100
4 Gunstrings

NOT to Scale

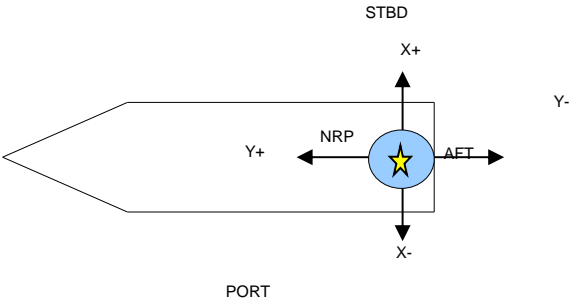




V1G1
V1G1



All measurements in meters



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

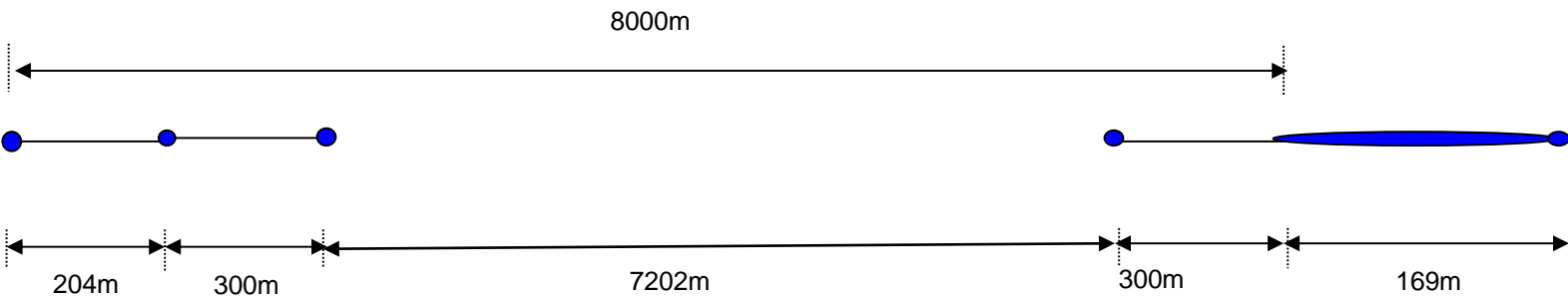


		STBD/PORT (X)	FORE/AFT (Y)	UP/DOWN (Z)
NRP	NAVIGATION REFERENCE POINT	0.00	0.00	0.00
V1G1	C-Nav 3050	0.00	0.00	-16.90
V1G2	SeaPath 200	0.00	1.50	-16.90
V1G3	C-Nav 2000	4.87	-15.27	-14.50
V1G4	Pos MV	-1.30	1.20	-16.90
V1R1	PosNet	-1.30	0.00	-16.90
EM122	Multibeam Transducer Array	0.00	20.20	7.49
MRU	Seapath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

R/V Marcus G. Langseth - Acoustic Offsets

Sonardyne SIPS 1

- HGPS Transciever 7887 & Shock Mounted Transducer 7660
- XSRS 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

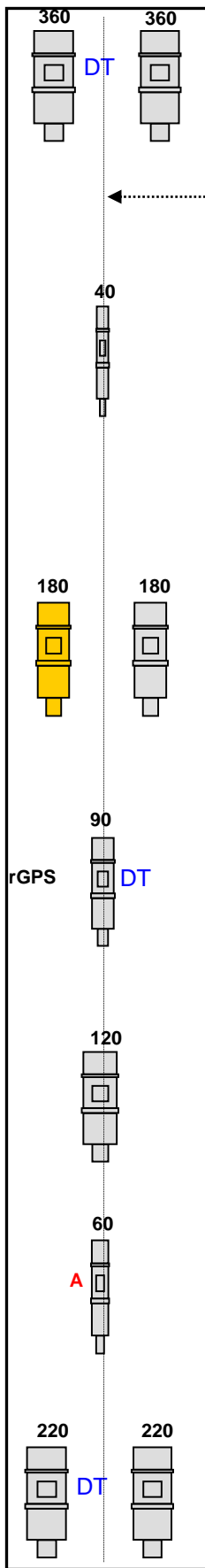
Center of Source 1 & 2

Spare Gun

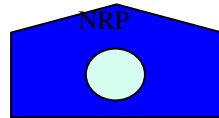
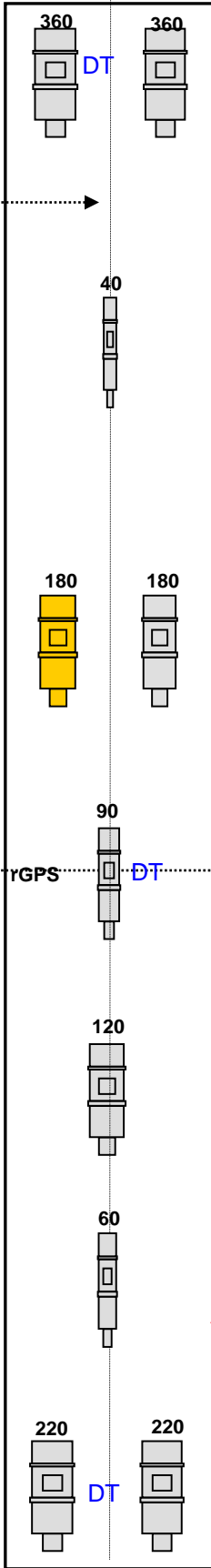
Cluster Guns are mounted 1m apart
String 1 cluster 9 & 10 mounted
horizontally
String 2, 3, & 4 all clusters mounted
vertically.

All measurements in meters

GUNSTRING 4

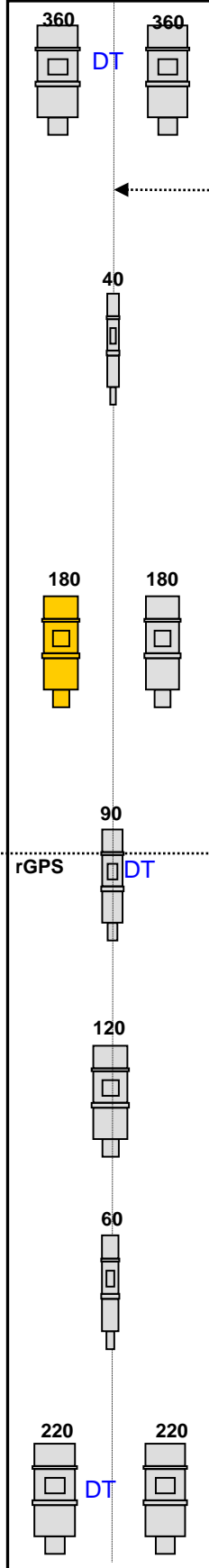


GUNSTRING 3

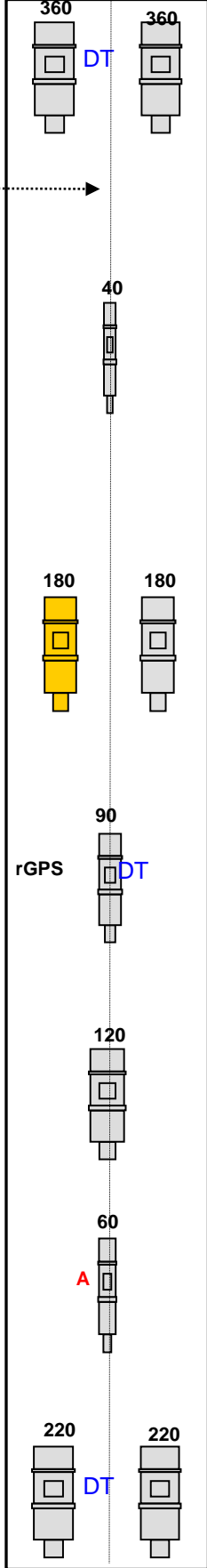


8.0m

GUNSTRING 2



GUNSTRING 1



3.23m
2.36m
2.64m
2.46m
2.31m
3.0m

R/V Marcus G. Langseth - Streamer Front End

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

